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OM nucleic - nucleic search, using sw model

Run on: January 21, 2005, 17:02:43 ; Search time 49.0695 Seconds  
(without alignments)  
3447.516 Million cell updates/sec

Title: US-09-437-450A-14  
Perfect score: 238  
Sequence: 1 tttttttttttttggggag.....tttcgcgcgcaaaaaaaa 238

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:  
1: /cgn2\_6/prodata/1/ina/5A COMB.seq.\*  
2: /cgn2\_6/prodata/1/ina/5B COMB.seq.\*  
3: /cgn2\_6/prodata/1/ina/6A COMB.seq.\*  
4: /cgn2\_6/prodata/1/ina/6B COMB.seq.\*  
5: /cgn2\_6/prodata/1/ina/PCUS COMB.seq.\*  
6: /cgn2\_6/prodata/1/ina/backfiles1.seq.\*

pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	34	14.3	1605	4	US-09-248-796A-978
C 2	33.4	14.0	1208	3	US-09-461-474-11
C 3	31.8	13.4	1464	1	US-08-292-688A-9
C 4	31.8	13.4	1546	1	US-08-292-688A-11
C 5	31.8	13.4	1616	1	US-08-292-688A-12
C 6	31.8	13.4	1621	1	US-08-292-688A-10
C 7	31.8	13.4	1693	1	US-08-292-688A-13
C 8	31.8	13.4	1693	1	US-08-292-688A-14
C 9	31.8	13.4	3653	3	US-08-973-334-1
C 10	31.8	13.4	3653	3	US-09-563-869A-1
C 11	31.8	13.4	3653	3	US-08-549-489-1
C 12	31.8	13.4	7311	4	US-09-645-004-3
C 13	31.8	13.4	7885	4	US-09-645-004-4
C 14	31.8	13.4	9274	4	US-09-811-115-1
C 15	31.4	13.2	738	4	US-09-552-225A-10
C 16	31.4	13.2	957	4	US-10-012-605C-7
C 17	31.2	13.1	342	4	US-09-270-767-3861
C 18	31.2	13.1	342	4	US-09-270-767-19143
C 19	31.2	13.1	459	4	US-09-270-767-9771
C 20	31.2	13.1	459	4	US-09-270-767-25053
C 21	31	13.0	2115	4	US-09-614-221A-481
C 22	30.8	12.9	1724	3	US-09-197-679A-1
C 23	30.8	12.9	2244	4	US-09-601-198-149
C 24	30.6	12.9	5761	4	US-09-799-451-23
C 25	30.4	12.8	477	4	US-09-107-532A-3599
C 26	30.2	12.7	640681	4	US-09-790-988-1
C 27	30	12.6	9018	4	US-10-220-587-3

28	29.6	12.4	882	4	US-09-248-796A-131	Sequence 131, Appl
C 29	29.4	12.4	477	1	US-08-313-608B-2	Sequence 2, Appli
C 30	29.4	12.4	477	2	US-08-459-324-2	Sequence 2, Appli
C 31	29.4	12.4	479	1	US-08-313-608B-1	Sequence 1, Appli
C 32	29.4	12.4	479	2	US-08-459-324-1	Sequence 1, Appli
C 33	29.4	12.4	1269	4	US-09-322-409-99	Sequence 99, Appl
C 34	29.4	12.4	1269	4	US-09-322-409-101	Sequence 101, Appl
C 35	29.4	12.4	1269	4	US-09-451-527-99	Sequence 99, Appl
C 36	29.4	12.4	1269	4	US-09-451-527-101	Sequence 101, Appl
C 37	29.4	12.4	1302	4	US-09-322-409-91	Sequence 91, Appl
C 38	29.4	12.4	1302	4	US-09-322-409-93	Sequence 93, Appl
C 39	29.4	12.4	1302	4	US-09-451-527-91	Sequence 91, Appl
C 40	29.4	12.4	1302	4	US-09-451-527-93	Sequence 93, Appl
C 41	29.4	12.4	5183	2	US-08-870-518-7	Sequence 7, Appli
C 42	29.2	12.3	2604	4	US-10-101-464A-834	Sequence 834, Appl
C 43	29.2	12.3	18613	4	US-08-956-171E-112	Sequence 112, Appl
C 44	29.2	12.3	18613	4	US-08-781-986A-112	Sequence 112, Appl
C 45	29	12.2	180	4	US-09-513-999C-29322	Sequence 29322, A

ALIGNMENTS

RESULT 1  
US-09-248-796A-978/c  
; Sequence 978, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
; FILE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; PRIOR FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 978  
; LENGTH: 1605  
; TYPE: DNA  
; ORGANISM: Candida albicans  
US-09-248-796A-978

Query Match	14.3%;	Score 34;	DB 4;	Length 1605;
Best Local Similarity	53.8%;	Pred. No. 0.48;		
Matches	70;	Conservative	0;	Mismatches 60; Indels 0; Gaps 0;
QY	77	ATTCCGCAATCACATTTCGGATGTTCTCGAAAGAGACTTCCCAAAGTTATTTGGAGTACTG	136	
Db	1424	AATCTTAAACAAAATTTTCGTAGATCTTGTAAAGAAATCAAAAATTTTCATCAATGTAT	1365	
QY	137	TGAAAGATTCGTCATGAAGTTTACCCAAAGAGCTTACTATGTGAATTAATGTCAAA	196	
Db	1364	CGATACATTTCAATTATTAAGATTTTCAGAAAATATTTTAAAGAAATCGGAAAAATTTTGAAA	1305	
QY	197	CTAGTAGTCA	206	
Db	1304	TTTGTGTCA	1295	

RESULT 2  
US-09-461-474-11/c  
; Sequence 11, Application US/09461474  
; Patent No. 6278042  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Rafaleski, Antoni  
; APPLICANT: Sakai Hajime  
; TITLE OF INVENTION: Plant Metal Transporters  
; FILE REFERENCE: BB1303 US NA  
; CURRENT APPLICATION NUMBER: US/09/461,474

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; CURRENT FILING DATE: 1999-12-14
; EARLIER APPLICATION NUMBER: 60/112,562
; EARLIER FILING DATE: 1998-12-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 11
; LENGTH: 1208
; TYPE: DNA
; ORGANISM: Glycine max
US-09-461-474-11
Query Match 14.0%; Score 33.4; DB 3; Length 1208;
Best Local Similarity 54.5%; Pred. No. 0.66;
Matches 67; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 54 CAATTGCGCACTGCTATTATCCATCCGCAATCACAATTCGGATGTTCTCGAAAGGAC 113
Db 864 CAACAGCCCCCTTCAAGCTTAGTACATCTATCTACGAGGTGTCTTCCATCAGGAC 805
QY 114 TTCCAAAAGTTATGGAGTACTGTGAAAGAGTTCGTCATGAAGTTTACCCAAAGGACTTT 173
Db 804 TTCCAAATGTTTCGAGCATGTTGATGGTTGCCCATACAACTACTGAAAAGATTAG 745
QY 174 ACT 176
Db 744 AGT 742

RESULT 3
US-08-292-688A-9/c
; Sequence 9, Application US/08292688A
; Patent No. 5814493
; GENERAL INFORMATION:
; APPLICANT: ROBERTSON, Donald L.
; APPLICANT: FISHER, Kuhia L.
; TITLE OF INVENTION: VIRUSES AND EXPRESSION VECTORS
; TITLE OF INVENTION: CONTAINING LTR SIZE VARIANTS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 18-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Radio, Susan M.
; REGISTRATION NUMBER: 40,373
; REFERENCE/DOCKET NUMBER: 004535-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1464 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-292-688A-9
Query Match 13.4%; Score 31.8; DB 1; Length 1464;
Best Local Similarity 49.1%; Pred. No. 2.2;
Matches 84; Conservative 0; Mismatches 87; Indels 0; Gaps 0;
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QY 64 CTGCTATTATCCATTCGCAATCACAATTCGGATGTTCTCGAAAGGACTTCCCAAAGT 123
Db 507 CTTTCTATTCTTATTCCTCCCATTTCTAACTTCGAAATTCGATGTAATAATAGTACTAAAGA 448
QY 124 TATTGAGTACTGTGAAAGAGTTCGTCATGAAGTTTACCCAAAGGACTTTTCTATGTGAA 183
Db 447 TAATGATTCAATTTCTTTAAACATAGTAATAATCTACCTATTGGATTGCTCTTATTGGT 388
QY 184 TTAATTTGCAAACTAGTAGTCAGATCAATAAAATTTTCGCGCGCAAAAAA 234
Db 387 AAAATATAATTTTGTAGCAAGCAATCTTATTTCTTCTGAAGGACAAAA 337

RESULT 4
US-08-292-688A-11/c
; Sequence 11, Application US/08292688A
; Patent No. 5814493
; GENERAL INFORMATION:
; APPLICANT: ROBERTSON, Donald L.
; APPLICANT: FISHER, Kuhia L.
; TITLE OF INVENTION: VIRUSES AND EXPRESSION VECTORS
; TITLE OF INVENTION: CONTAINING LTR SIZE VARIANTS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 18-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Radio, Susan M.
; REGISTRATION NUMBER: 40,373
; REFERENCE/DOCKET NUMBER: 004535-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1546 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-292-688A-11
Query Match 13.4%; Score 31.8; DB 1; Length 1546;
Best Local Similarity 49.1%; Pred. No. 2.3;
Matches 84; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 64 CTGCTATTATCCATTCGCAATCACAATTCGGATGTTCTCGAAAGGACTTCCCAAAGT 123
Db 507 CTTTCTATTCTTATTCCTCCCATTTCTAACTTCGAAATTCGATGTAATAATAGTACTAAAGA 448
QY 124 TATTGAGTACTGTGAAAGAGTTCGTCATGAAGTTTACCCAAAGGACTTTTCTATGTGAA 183
Db 447 TAATGATTCAATTTCTTTAAACATAGTAATAATCTACCTATTGGATTGCTCTTATTGGT 388
QY 184 TTAATTTGCAAACTAGTAGTCAGATCAATAAAATTTTCGCGCGCAAAAAA 234
Db 387 AAAATATAATTTTGTAGCAAGCAATCTTATTTCTTCTGAAGGACAAAA 337
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;
;   REGISTRATION NUMBER: 40,373
;   REFERENCE/DOCKET NUMBER: 004535-001
;   TELECOMMUNICATION INFORMATION:
;   . TELEPHONE: (703) 836-6620
;   . TELEFAX: (703) 836-2021
;   INFORMATION FOR SEQ ID NO: 13:
;   SEQUENCE CHARACTERISTICS:
;   . LENGTH: 1693 base pairs
;   . TYPE: nucleic acid
;   . STRANDEDNESS: single
;   . TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
;
US-08-292-688A-13

Query Match      13.4%; Score 31.8; DB 1; Length 1693;
Best Local Similarity 49.1%; Pred. No. 2.4;
Matches 84; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 64 CTGCTATTATCCATTCGCGCAATCACATTTCCGGATGTTCTCGAAAGGACTTCCCAAAGT 123
Db 507 CTTTCTATTCTTCTTATCCCATTTCTAACTTCTGAATTTGAGTAAATAAGTACTAAAGA 448
QY 124 TATTGGAGTACTGTGAAAGAGTTTCGTCAATGAAGTTTACCCAAAGGACTTTTACTATGTGAA 183
Db 447 TAATGATTCATTCTTTAAACATAGTAATAATCTACCTATTGGATTGGTCTTATTGGT 388
QY 184 TTTAAATGTCAAACTAGTAGTACATCAATAAAATTTTCGCGCGGAAAAA 234
Db 387 AAAAATATATTTTGAAGCAATCTTATTCTTCTTGAAGGACAAAA 337

RESULT 8
US-08-292-688A-14/c
; Sequence 14, Application US/08292688A
; Patent No. 5814493
; GENERAL INFORMATION:
; APPLICANT: ROBERTSON, Donald L.
; APPLICANT: FISHER, Kuhia L.
; TITLE OF INVENTION: VIRUSES AND EXPRESSION VECTORS
; TITLE OF INVENTION: CONTAINING LTR SIZE VARIANTS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/292,688A
; FILING DATE: 18-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dadio, Susan M.
; REGISTRATION NUMBER: 40,373
; REFERENCE/DOCKET NUMBER: 004535-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; . LENGTH: 1693 base pairs
; . TYPE: nucleic acid
; . STRANDEDNESS: single
; . TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
;
US-08-292-688A-14
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;
;   REGISTRATION NUMBER: 40,373
;   REFERENCE/DOCKET NUMBER: 004535-001
;   TELECOMMUNICATION INFORMATION:
;   . TELEPHONE: (703) 836-6620
;   . TELEFAX: (703) 836-2021
;   INFORMATION FOR SEQ ID NO: 13:
;   SEQUENCE CHARACTERISTICS:
;   . LENGTH: 1693 base pairs
;   . TYPE: nucleic acid
;   . STRANDEDNESS: single
;   . TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
;
US-08-292-688A-13

Query Match      13.4%; Score 31.8; DB 1; Length 1693;
Best Local Similarity 49.1%; Pred. No. 2.4;
Matches 84; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 64 CTGCTATTATCCATTCGCGCAATCACATTTCCGGATGTTCTCGAAAGGACTTCCCAAAGT 123
Db 507 CTTTCTATTCTTCTTATCCCATTTCTAACTTCTGAATTTGAGTAAATAAGTACTAAAGA 448
QY 124 TATTGGAGTACTGTGAAAGAGTTTCGTCAATGAAGTTTACCCAAAGGACTTTTACTATGTGAA 183
Db 447 TAATGATTCATTCTTTAAACATAGTAATAATCTACCTATTGGATTGGTCTTATTGGT 388
QY 184 TTTAAATGTCAAACTAGTAGTACATCAATAAAATTTTCGCGCGGAAAAA 234
Db 387 AAAAATATATTTTGAAGCAATCTTATTCTTCTTGAAGGACAAAA 337

RESULT 9
US-08-973-334-1/c
; Sequence 1, Application US/08973334
; Patent No. 6261551
; GENERAL INFORMATION:
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Gao, Guang-Ping
; TITLE OF INVENTION: Recombinant Adenovirus and Adeno-
; TITLE OF INVENTION: Associated Virus, Cell Lines, and
; TITLE OF INVENTION: Methods of Production and Use
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Box 457, 321 No. 6261551ristown Road
; CITY: Spring House
; STATE: PA
; COUNTRY: USA
; ZIP: 19477
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release 1.0 Version 1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/973,334
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/462,014
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/549,489
; FILING DATE: 27-OCT-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVEN012CIPUSA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 540-9206
; TELEFAX: (215) 540-5818
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; . LENGTH: 3653 base pairs
; . TYPE: nucleic acid
; . STRANDEDNESS: double
; . TOPOLOGY: not relevant
; MOLECULE TYPE: cDNA
; FEATURE:
; . NAME/KEY: CDS
; . LOCATION: 1521..2405
;
US-08-973-334-1

Query Match      13.4%; Score 31.8; DB 3; Length 3653;
Best Local Similarity 49.1%; Pred. No. 3.2;
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58	TGGCAACTGCTATTATTCATCCGCAATCAATTTCCGATGTTCTCGAAAGAGACTTCC	117
Qy		
49	TGGTAAAGATTGATTTATAGTTACCTCAATTTTATCTTAAATGGAGTTTAAAGTAAAGTTTG	108
Db		

QY 118 CAAAGTTATTGGAGTCTGTAAGAGTTCGTGATGAGTTTACCCAAAGGACTTTACTA 177  
Db 109 CTTTGCCCTTGATGAATTGTAACATCATGCTCCAAAGAAATATAATTCCAAATAATTTACTA 168  
QY 178 TGTGAATTAATTTGTCAAAGTAGTAGTCAGATCAATA 214  
Db 169 TAAAGAGTAAATTTTAAAGCTTTATGTTAAATTAACA 205

## RESULT 2

US-10-085-783A-49714  
; Sequence 49714, Application US/10085783A  
; Publication No. US20040037841A1  
; GENERAL INFORMATION:  
; APPLICANT: ChondroGene Inc.  
; APPLICANT: Liew, C.C.  
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis  
; FILE REFERENCE: 4231/2002  
; CURRENT APPLICATION NUMBER: US/10/085,783A  
; CURRENT FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: US 60/305,340  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/275,017  
; PRIOR FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: US 60/271,955  
; PRIOR FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 58994  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 49714  
; LENGTH: 263  
; TYPE: DNA  
; ORGANISM: Human  
US-10-085-783A-49714

Query Match 15.5%; Score 37; DB 16; Length 263;

Best Local Similarity 52.2%; Pred. No. 0.87; Mismatches 75; Indels 0; Gaps 0;

Matches 82; Conservative 0;

QY 58 TGGCACTGCTATTATCCCATTCGCAATCACATTCGGATGTTCTCGAAAGGACTTCC 117  
Db 49 TGGTAAGATTGATTATAGTATACCTCATTTTATCTTAATGGATTTAAGTAAGTTG 108  
QY 118 CAAAGTTATTGGAGTCTGTAAGAGTTCGTGATGAGTTTACCCAAAGGACTTTACTA 177  
Db 109 CTTTGCCCTTGATGAATTGTAACATCATGCTCCAAAGAAATATAATTCCAAATAATTTACTA 168  
QY 178 TGTGAATTAATTTGTCAAAGTAGTAGTCAGATCAATA 214  
Db 169 TAAAGAGTAAATTTTAAAGCTTTATGTTAAATTAACA 205

## RESULT 3

US-10-739-930-3393/c  
; Sequence 3393, Application US/10739930  
; Publication No. US20040216190A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH  
; FILE REFERENCE: 38-21(53377)B  
; CURRENT APPLICATION NUMBER: US/10/739,930  
; CURRENT FILING DATE: 2003-12-18  
; NUMBER OF SEQ ID NOS: 11088  
; SEQ ID NO 3393  
; LENGTH: 1510  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: GLYMA-23APR03-CLUSTER2530\_2  
US-10-739-930-3393

Query Match 15.0%; Score 35.8; DB 18; Length 1510;

Best Local Similarity 59.2%; Pred. No. 4.1;

Matches 61; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 1 TTTTCTTTTTTTTTTTGGGAGGAATCACGGCTTCGGATGCAACAGTCTTCTCTCAATGG 60  
Db 1393 TTTTCTTTTTTTTTTTGGGAGGAATAAAGCGGCTCAGGAAGCAACTGCCATCTTCCATTATC 1334  
QY 61 CAACTGCTATATATCCATTCGCAATCAACATTTCCGATGTTCT 103  
Db 1333 AAACTTTCCGCTAGCATTTTATGCAATACATTAGCTATGTTTT 1291

## RESULT 4

US-10-041-018-135  
; Sequence 135, Application US/10041018  
; Publication No. US20040072323A1  
; GENERAL INFORMATION:  
; APPLICANT: Matsuda, Seiichi P.T.  
; APPLICANT: Hart, Elizabeth A.  
; TITLE OF INVENTION: Diterpene-Producing Unicellular Organism  
; FILE REFERENCE: P02080US1/10025547  
; CURRENT APPLICATION NUMBER: US/10/041,018  
; CURRENT FILING DATE: 2002-01-07  
; PRIOR APPLICATION NUMBER: US 60/259880  
; PRIOR FILING DATE: 2001-01-05  
; NUMBER OF SEQ ID NOS: 413  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 135  
; LENGTH: 4233  
; TYPE: DNA  
; ORGANISM: Gossypium hirsutum  
US-10-041-018-135

Query Match 14.4%; Score 34.2; DB 16; Length 4233;

Best Local Similarity 54.3%; Pred. No. 19;

Matches 69; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 112 ACTTCCCAAGATTATTGGAGTACTGGAAGAGTTCTGATGAAGTTTACCCAAAGGACT 171  
Db 236 ACTTCTCAGTTTTTCATAAAGTATAGGATGGAATTTAAATTAACCTTTTAACTCAA 295  
QY 172 TTACTATGCAATTAATTTGTCAAACTAGTAGTCAGATCAATAAAATTTTCCGCGCGAAA 231  
Db 296 TAAGTAATGATTAAATTTCCAGAAATTAACAGAGAAATTAATTTCAAAGATGA 355  
QY 232 AAAAAA 238  
Db 356 AATAAA 362

## RESULT 5

US-09-783-590-5790/c  
; Sequence 5790, Application US/09783590  
; Patent No. US20020110850A1  
; GENERAL INFORMATION:  
; APPLICANT: Dillon, Patrick J.  
; APPLICANT: Haseltine, William A.  
; APPLICANT: Li, Haodong  
; APPLICANT: Rosen, Craig A.  
; APPLICANT: Ruben, Steven M.  
; TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 16.2  
; FILE REFERENCE: PO-16.2C1  
; CURRENT APPLICATION NUMBER: US/09/783,590  
; CURRENT FILING DATE: 2000-02-15  
; PRIOR APPLICATION NUMBER: 08/420,856  
; PRIOR FILING DATE: 1995-04-12  
; PRIOR APPLICATION NUMBER: 08/346,731  
; PRIOR FILING DATE: 1994-11-21  
; NUMBER OF SEQ ID NOS: 12485  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5790  
; LENGTH: 499  
; TYPE: DNA  
; ORGANISM: Homo sapiens



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; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 221058
; LENGTH: 621
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
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US-10-027-632-221058

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Db  196 AGCAACCTGGAAGAAAA 178

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US-10-027-632-221059/c
; Sequence 221059, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
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US-10-027-632-221058

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US-10-027-632-221058/c
; Sequence 221058, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
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US-10-027-632-221058

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

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(without alignments)  
3447.516 Million cell updates/sec

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Perfect score: 214

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Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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C 2	35.2	16.4	1664976	4	US-09-692-570-1
C 3	34.8	16.3	10754	2	US-08-966-358-1
C 4	34.8	16.3	10754	2	US-09-215-817-1
C 5	34.8	16.3	10754	3	US-09-342-353-1
C 6	33.8	15.8	184	4	US-09-513-999C-25584
C 7	33.8	15.8	1113	4	US-09-647-224A-23
C 8	33.6	15.7	231	4	US-09-107-532A-2950
C 9	33.4	15.6	12173	4	US-08-956-171B-310
C 10	33.4	15.6	12173	4	US-08-781-986A-310
C 11	32.8	15.3	696	3	US-09-227-357-69
C 12	32.8	15.3	1476	4	US-09-134-000C-1200
C 13	32.6	15.2	277	4	US-09-621-976-17619
C 14	32.6	15.2	495	4	US-09-270-767-28358
C 15	32.6	15.2	979	4	US-09-270-767-12569
C 16	32.6	15.2	1551	4	US-09-270-767-29950
C 17	32.6	15.2	1599	4	US-09-270-767-13884
C 18	32.4	15.1	270	3	US-09-134-001C-1648
C 19	32.4	15.1	1269	4	US-09-322-409-99
C 20	32.4	15.1	1269	4	US-09-322-409-101
C 21	32.4	15.1	1269	4	US-09-451-527-99
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C 29 32.4 15.1 3546 4 US-09-710-279-3457 Sequence 3457, Ap  
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C 37 31.8 14.9 1092 4 US-09-328-352-3578 Sequence 3578, Ap  
C 38 31.8 14.9 5152 4 US-10-204-708-74 Sequence 74, Appl  
C 39 31.4 14.7 1168 4 US-08-961-527-362 Sequence 362, App  
C 40 31.2 14.6 2214 4 US-10-327-189-1 Sequence 1, Appli  
C 41 30.8 14.4 2595 4 US-09-919-497-12 Sequence 12, Appl  
C 42 30.8 14.4 4079 4 US-09-016-434-1257 Sequence 1257, Ap  
C 43 30.8 14.4 4105 3 US-08-121-446-1 Sequence 1, Appli  
C 44 30.8 14.4 1664976 4 US-08-916-421B-1 Sequence 1, Appli  
C 45 30.8 14.4 1664976 4 US-09-692-570-1 Sequence 1, Appli

#### ALIGNMENTS

##### RESULT 1

US-08-916-421B-1/c

; Sequence 1, Application US/08916421B

; Patent No. 6503729

; GENERAL INFORMATION:

; APPLICANT: Bult et al.

; TITLE OF INVENTION: Complete Genome Sequence of the Methanogenic Archaeon, Methanococcus

; Patent No. 6503729

; FILE REFERENCE: PB275

; CURRENT APPLICATION NUMBER: US/08/916,421B

; CURRENT FILING DATE: 1997-08-22

; PRIOR APPLICATION NUMBER: US 60/024,428

; PRIOR FILING DATE: 1996-08-22

; NUMBER OF SEQ ID NOS: 3

; SOFTWARE: Patent in version 3.1

; SEQ ID NO 1

; LENGTH: 1664976

; TYPE: DNA

; ORGANISM: Methanococcus jannaschii

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; LOCATION: (28257)..(28258)

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; US-08-916-421B-1

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Query Match	16.4%	Score 55.2	DB 4	Length 1664976
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Qy	139	AGGACTTTACTATGTAAT	AAAAATGTCAAAC	TAGTACTCAGATCAATAAAAAATTTTACGT 198
Db	501803	AAGAAGCCTAAGT	TAGCTATATAAAAAATTAACAGAATATTC	CAATAAAGAAATATTTTTAT 501744
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Db	501743	AGGACAT	TAAGAGTAA 501728	

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RESULT 2
; US-09-692-570-1/c
; Sequence 1, Application US/09692570
; Patent No. 6797466
; GENERAL INFORMATION:
; APPLICANT: Bult et al.
; TITLE OF INVENTION: Complete Genome Sequence of the Methanogenic Archaeon, Methanococcus
; Patent No. 6797466
; FILE REFERENCE: PB275C1
; CURRENT APPLICATION NUMBER: US/09/692,570
; CURRENT FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: US 60/024,428
; PRIOR FILING DATE: 1996-08-22
; PRIOR APPLICATION NUMBER: US 08/916,421
; PRIOR FILING DATE: 1997-08-22
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; NAME/KEY: misc feature
; LOCATION: (622708)..(622708)
; OTHER INFORMATION: n equals a, t, c, or g
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (657081)..(657081)
; OTHER INFORMATION: n equals a, t, c, or g
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (657203)..(657203)
; OTHER INFORMATION: n equals a, t, c, or g
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (674435)..(674435)
; OTHER INFORMATION: n equals a, t, c, or g
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FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (682442)..(682442)  
OTHER INFORMATION: n equals a, t, c, or g  
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NAME/KEY: misc\_feature  
LOCATION: (713652)..(713652)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (741684)..(741684)  
OTHER INFORMATION: n equals a, t, c, or g  
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NAME/KEY: misc\_feature  
LOCATION: (779455)..(779455)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (779676)..(779676)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (855539)..(855539)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (871619)..(871619)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1084830)..(1084830)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1096846)..(1096846)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1119881)..(1119881)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1130881)..(1130881)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1310988)..(1310988)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1313224)..(1313224)  
OTHER INFORMATION: n equals a, t, c, or g  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1349473)..(1349473)  
OTHER INFORMATION: n equals a, t, c, or g

Query Match 16.4%; Score 35.2; DB 4; Length 1664976;  
Best Local Similarity 53.7%; Pred. No. 5.2;  
Matches 73; Conservative 0; Mismatches 53; Indels 0; Gaps 0;  
Qy 79 GAAAGGACTTCCCAAGTTATTGGAGTACTGTGAAAGAGTTCGTATGAGTTTCCCAA 138  
Db 501863 GAGGAAATTCCTTAAGAGTTGGAGGAGTTTGTAAATCTAAAGGAGGACTAAA 501804  
Qy 139 AGGACTTTACTATGTGAATTAATTTGTCAGACTAGTACATCAATAAATTTTACGT 198  
Db 501803 AAGAGGCTAAAGTAGCTATATAAATTAACAGATATTTCAATTAAGAAATATTTTAT 501744  
Qy 199 GGAATAAAAAAAAAA 214  
Db 501743 AGGACATAAAGTAA 501728

RESULT 3  
US-08-966-958-1  
; Sequence 1, Application US/08966958  
; Patent No. 5928908  
; GENERAL INFORMATION:  
; APPLICANT: Dunn, John  
; APPLICANT: Randesi, Matthew  
; TITLE OF INVENTION: METHODS FOR INTRODUCING UNIDIRECTIONAL  
; TITLE OF INVENTION: DELETIONS  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Brookhaven National Laboratory  
; STREET: P.O. Box 5000  
; CITY: Upton  
; STATE: New York  
; COUNTRY: US  
; ZIP: 11973  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/966,958  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bogosian, Margaret  
; REGISTRATION NUMBER: 25,324  
; REFERENCE/DOCKET NUMBER: AUI97-14  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (516) 344-3341  
; TELEFAX: (516) 344-3729  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10754 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-966-958-1

Query Match 16.3%; Score 34.8; DB 2; Length 10754;  
Best Local Similarity 53.7%; Pred. No. 1.3;  
Matches 72; Conservative 0; Mismatches 62; Indels 0; Gaps 0;  
Qy 80 AAAAGGACTTCCCAAGTTATTGGAGTACTGTGAAAGAGTTCGTATGAGTTTCCCAA 139  
Db 2311 ATAGGGAATATAATCTTTATTGTCAGAGGCAATATTTCTCTAGAGGGTCACAAA 2370  
Qy 140 GGACTTTACTATGTGAATTAATTTGTCAGACTAGTACATCAATAAATTTTACGTG 199  
Db 2371 AGTAACTATAAGGAAAAAATTTGACAAACTGGACTTCATCAAAATTAATCATCTTTT 2430  
Qy 200 GAAAAAATAAAAAA 213  
Db 2431 GTTCATCAAGAAAA 2444

RESULT 4  
US-09-215-817-1  
; Sequence 1, Application US/09215817  
; Patent No. 5968786  
; GENERAL INFORMATION:  
; APPLICANT: Dunn, John  
; APPLICANT: Randesi, Matthew  
; TITLE OF INVENTION: METHODS FOR INTRODUCING UNIDIRECTIONAL  
; TITLE OF INVENTION: DELETIONS  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Brookhaven National Laboratory  
; STREET: P.O. Box 5000

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; CITY: Upton
; STATE: New York
; COUNTRY: US
; ZIP: 11973
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/215,817
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/966,958
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bogosian, Margaret
; REGISTRATION NUMBER: 25,324
; REFERENCE/DOCKET NUMBER: AU197-14
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 344-3341
; TELEFAX: (516) 344-3729
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10754 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-215-817-1

Query Match 16.3%; Score 34.8; DB 2; Length 10754;
Best Local Similarity 53.7%; Pred. No. 1.3;
Matches 72; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 80 AAAGGACTTCCCAAGTTATTGGAGTACTGTGAAGAGTTGTCATGAAGTTTCCCAA 139
DB 2311 ATAGGGAATATAATCTTTATTTGTGACAGGCAAAATATTTCTCTAGAGGGTCACAAA 2370
QY 140 GGACTTTACTATGTGAATTAATTTGCAAACTAGTAGTCAGATCAATAAATTTTACGTG 199
DB 2371 AGTAACATAAGGGAATAAATTGACAACTGGACTTCATCAAAATTAATCATCTTTT 2430
QY 200 GAAAAAATAAATAA 213
DB 2431 GTTCATCAAGAAA 2444

RESULT 6
US-09-513-999C-25584
; Sequence 25584, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59 US2 REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO: 25584
; LENGTH: 184
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-25584

Query Match 15.8%; Score 33.8; DB 4; Length 184;
Best Local Similarity 58.4%; Pred. No. 0.64;
Matches 59; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 111 TGAAGAGTTGTCATGAAGTTTCCCAAGGACTTTTACTATGTGAATTAATTTTAAAC 170
DB 5 TAAAAAGGTAGAAAGTAATTTTCTTAAATAATAAATAAATAAATTTTAAATAA 64
QY 171 TAGTAGTCAGATCAATAAATTTTACGTGCAAAAAAATAA 211
DB 65 TCATAGACACATAAATAGAACTTTACCAGGAGAGAGAAAAA 105

RESULT 7
US-09-647-224A-23
; Sequence 23, Application US/09647224A
; Patent No. 6482631
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Gutteridge, Steven
; APPLICANT: Hitz, William D.
; APPLICANT: Maxwell, Carl A.
; APPLICANT: Rafalski, J. Antoni
; APPLICANT: Tao, Yong
; APPLICANT: Vollmer, Steven J.
; TITLE OF INVENTION: TRYPTOPHAN BIOSYNTHETIC ENZYMES
; FILE REFERENCE: BB-1150-A
; CURRENT APPLICATION NUMBER: US/09/647,224A
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 60/079,386
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: PCT/US99/06046
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23

; CITY: Upton
; STATE: New York
; COUNTRY: US
; ZIP: 11973
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/215,817
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/966,958
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bogosian, Margaret
; REGISTRATION NUMBER: 25,324
; REFERENCE/DOCKET NUMBER: AU197-14
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 344-3341
; TELEFAX: (516) 344-3729
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10754 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-215-817-1

Query Match 16.3%; Score 34.8; DB 3; Length 10754;
Best Local Similarity 53.7%; Pred. No. 1.3;
Matches 72; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 80 AAAGGACTTCCCAAGTTATTGGAGTACTGTGAAGAGTTGTCATGAAGTTTCCCAA 139
DB 2311 ATAGGGAATATAATCTTTATTTGTGACAGGCAAAATATTTCTCTAGAGGGTCACAAA 2370
QY 140 GGACTTTACTATGTGAATTAATTTGCAAACTAGTAGTCAGATCAATAAATTTTACGTG 199
DB 2371 AGTAACATAAGGGAATAAATTGACAACTGGACTTCATCAAAATTAATCATCTTTT 2430
QY 200 GAAAAAATAAATAA 213
DB 2431 GTTCATCAAGAAA 2444

RESULT 5
US-09-342-353-1
; Sequence 1, Application US/09342353
; Patent No. 6248569
; GENERAL INFORMATION:
; APPLICANT: Dunn, John
; TITLE OF INVENTION: METHOD FOR INTRODUCING UNIDIRECTIONAL NESTED DELETIONS
; FILE REFERENCE: CIP OF U.S. Application 08/966,958
; CURRENT APPLICATION NUMBER: US/09/342,353
; CURRENT FILING DATE: 1999-06-29
; EARLIER APPLICATION NUMBER: 08/966,958
; EARLIER FILING DATE: 1997-11-10
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 1
; LENGTH: 10754
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-342-353-1

Query Match 16.3%; Score 34.8; DB 3; Length 10754;
Best Local Similarity 53.7%; Pred. No. 1.3;
Matches 72; Conservative 0; Mismatches 62; Indels 0; Gaps 0;
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; LENGTH: 1113
; TYPE: DNA
; ORGANISM: Triticum aestivum
US-09-647-224A-23

Query Match      15.8%; Score 33.8; DB 4; Length 1113;
Best Local Similarity 52.5%; Pred. No. 1.2;
Matches 74; Conservative 0; Mismatches 67; Indels 0; Gaps 0;

QY 73 GTTCTCGAAAGGACTTCCCAAAGTTATTGGAGTACTGTGGAAGAGTTGTCATGAAGTT 132
Db      |||||
QY 973 GGTCTCTATTAGACGCCGCCAGGCTTATTGTAGCTTCTTGCTTCAGTTTGTGAAGACATT 1032
Db      |||||

QY 133 TCCCAAGAGGACTTACTATCTGAATTAATTTGCAAACTAGTAGTCAGATCAATAAAATT 192
Db      |||||
QY 1033 TGAATAATAGCTGCTCGAATGATAGCAGTAATAAACAACCTTTGAAGCGGAGTTCACAC 1092
Db      |||||

QY 193 TTACGTGGAAAAAATAAAAAA 213
Db      |||||
QY 1093 TAAAAAATAAAAAAATAAAAAA 1113
Db      |||||

RESULT 8
US-09-107-532A-2950
; Sequence 2950, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 2950:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 231 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...231
; SEQUENCE DESCRIPTION: SEQ ID NO: 2950:

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US-09-107-532A-2950

Query Match      15.7%; Score 33.6; DB 4; Length 231;
Best Local Similarity 54.2%; Pred. No. 0.78;
Matches 90; Conservative 0; Mismatches 74; Indels 2; Gaps 1;

QY 1 AAATCATGGCGCGGAGTGAACAGCTTCTCTCAATTGGCAACTGTCTATATCATTTCCGCCAA 60
Db      |||||
QY 65 AAAGCCTTAATCCGACAGCTTCTGTGTTTACCATTGGCGACTTTCGACGTTTCTCGGCAA 124
Db      |||||
QY 61 CACATTTCGGATGTTCTCGMAAAGGACTTCCCAAAGTTATTGGAGTA--CTGTGAAAGAG 118
Db      |||||
QY 125 CAGCCTATGTTTGTATAGAGCCTCACCTAACAGGTATTACTATATCTATTATTCGAG 184
Db      |||||
QY 119 TTTCGTCATGAAGTTTCCCAAAGGACTTTACTATGTGAATTAATG 164
Db      |||||
QY 185 TTCAATGATAGACTTTTCTTATGATTAGGCAATGGAATTTGAAATG 230
Db      |||||

RESULT 9
US-08-956-171E-310
; Sequence 310, Application US/08956171E
; Patent No. 6593114
; GENERAL INFORMATION:
; APPLICANT: Charles Kunsch
; Gil H. Choi
; Patrick S. Dillon
; Craig A. Rosen
; Steven C. Barash
; Michael R. Rannon
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 5256
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; OPERATING SYSTEM: HP Vectra 486/33
; SOFTWARE: MSDOS version 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/956,171E
; FILING DATE: 20-Oct-1997
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/009,861
; FILING DATE: January 5, 1996
; APPLICATION NUMBER: 08/781,986
; FILING DATE: January 3, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mark J. Hyman
; REGISTRATION NUMBER: 45,789
; REFERENCE/DOCKET NUMBER: PB248P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (240) 314-1224
; TELEFAX: (301) 309-8439
; INFORMATION FOR SEQ ID NO: 310:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12173 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 310:
US-08-956-171E-310

Query Match      15.6%; Score 33.4; DB 4; Length 12173;
Best Local Similarity 58.6%; Pred. No. 3.4;
Matches 58; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

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;
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (605)
; OTHER INFORMATION: n equals a.t,g, or c
;
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (648)
; OTHER INFORMATION: n equals a.t,g, or c
;
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (655)
; OTHER INFORMATION: n equals a.t,g, or c
;
US-09-227-357-69
    Query Match      15.3%; Score 32.8; DB 3; Length 696;
    Best Local Similarity 51.4%; Pred. No. 1.9;
    Matches 73; Conservative 1; Mismatches 68; Indels 0; Gaps 0;

QY 71 ATGTTCTCGAAGAGGACTTCCCAAAGTTATTGGAGTACTGTGAAAGAGTTTCGTCAATGAAG 130
Db 278 ATGCTTTTAAATAATCWAACAACTAACTAATCACTAGCCATCGAGTCAATCGGCTTGAGG 219
QY 131 TTTCCCAAAGGACTTTACTATGTGAATTAATTGTCAAACTAGTAGTCAGATCAATATAAA 190
Db 218 GTAAACTAATCCCTTATACCACTTGATTATTATTATTAATTAGTTAATAATGCAGTTAAT 159
QY 191 TTTTACGTGGAATAAAAAA 212
Db 158 TTCAACTGCATAAAGAAAAA 137

RESULT 12
US-09-134-000C-1200
; Sequence 1200, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-022
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1200
; LENGTH: 1476
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-09-134-000C-1200
    Query Match      15.3%; Score 32.8; DB 4; Length 1476;
    Best Local Similarity 56.5%; Pred. No. 2.5;
    Matches 61; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 94 AAGTTTGGAGTACTGTGAAAGAGTTTCGTATGAAAGTTTCCCAAAGGACTTTTACTATGT 153
Db 496 AAGTTAGTAGTTTCTATGAAATCTTTCGCGTGAATTTCAACCGATATAAAGGATTA 555
QY 154 GAATTAATTTGCAAACTAGTAGTCAGATCAATATAAAATTTTACGTGGA 201
Db 556 GTCAATATTGTTTAACTTTTAAACGAAATTAATATGATTTTACATGCA 603

RESULT 13
US-09-621-976-17619
; Sequence 17619, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.

;
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 17619
; LENGTH: 277
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-17619
    Query Match      15.2%; Score 32.6; DB 4; Length 277;
    Best Local Similarity 54.6%; Pred. No. 1.6;
    Matches 65; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 96 GTTATTGGAGTACTGTGAAAGAGTTTCGTATGAAAGTTTCCCAAAGGACTTTTACTATGTGA 155
Db 157 GTAATTGCAATACTTTAGGAGACCAAGGCGAGGAGTTCGGTTAATGTACACTGTTGAG 216
QY 156 ATTAATTTGTCAAACTAGTAGTCAGATCAATATAAAATTTTACGTGGAATAAAAAA 214
Db 217 TTTCGTACATATAAAATTAATGAAATAATACAAATTTTCTTCAAAAAAATAACAA 275

RESULT 14
US-09-270-767-28358/c
; Sequence 28358, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28358
; LENGTH: 495
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-28358
    Query Match      15.2%; Score 32.6; DB 4; Length 495;
    Best Local Similarity 63.3%; Pred. No. 2;
    Matches 50; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 136 CAAAGGACTTTTACTATGTGAATTAATTTGTCAAACTAGTAGTCAGATCAATAAAATTTTA 195
Db 181 CAAATAAATTACATTAGAAATTAATTTGTTTAACTTACCTACAAACAAAAATAACAA 122
QY 196 CGTGGAAAAA 214
Db 121 AAATGAAAAA 103

RESULT 15
US-09-270-767-12569/c
; Sequence 12569, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12569
; LENGTH: 979
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-12569
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Query Match 15.2%; Score 32.6; DB 4; Length 979;  
Best Local Similarity 63.3%; Pred. No. 2.5;  
Matches 50; Conservative 0; Mismatches 29; Indels 0; Gaps 0;  
Qy 136 CAAAGGACTTTACTATGTGAATTAAATTGTCAAACCTAGTAGTCAGATCAATAAAATTTTA 195  
Db 181 CAATAAATTACATTTAGAANTAAATTGTGTTAACCTACAACAAAAAATACAA 122  
Qy 196 CGTGGAAAAAATAAAAAA 214  
Db 121 AAATGAAAAAATAAAAAA 103

Search completed: January 22, 2005, 02:14:41  
Job time : 55.1213 secs

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OM nucleic - nucleic search, using sw model

Run on: January 21, 2005, 17:02:48 ; Search time 251.043 Seconds  
(without alignments)  
4898.046 Million cell updates/sec

Title: US-09-437-450A-34

Perfect score: 214  
Sequence: 1 aaatcgtgcccgggtgca.....acgtgaaaaa 214

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4300275 seqs, 2872944193 residues

Total number of hits satisfying chosen parameters: 8600550

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq:\*  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:\*  
8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:\*  
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11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*  
12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*  
13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*  
14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*  
15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq:\*  
16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq:\*  
17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq:\*  
18: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*  
19: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*  
20: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*  
21: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	40.4	18.9	678	9	Sequence 358, App
C 2	38.2	17.9	60940	16	Sequence 88, App
C 3	38	17.8	3095	18	Sequence 312, App
C 4	37.8	17.7	2116	9	Sequence 261, App
C 5	37.8	17.7	2116	14	Sequence 31, App
C 6	37.2	17.4	2782	18	Sequence 15560, A
C 7	36.2	16.9	1344	16	Sequence 17285, A
C 8	35.8	16.7	5001	15	Sequence 70, App
C 9	35.8	16.7	5001	15	Sequence 74, App
C 10	35.8	16.7	5001	17	Sequence 34, App
C 11	35.8	16.7	5001	18	Sequence 70, App
C 12	35	16.4	745	9	Sequence 13, App

C 13	35	16.4	745	14	US-10-072-349-13	Sequence 13, Appl
C 14	35	16.4	2820	15	US-10-301-822-188	Sequence 188, App
C 15	35	16.4	2820	15	US-10-295-027-63	Sequence 63, Appl
C 16	35	16.4	2820	15	US-10-295-027-960	Sequence 960, App
C 17	35	16.4	2820	18	US-10-473-974-204	Sequence 204, App
C 18	35	16.4	2839	9	US-09-909-775-1	Sequence 1, Appli
C 19	35	16.4	2840	10	US-09-918-6248-59	Sequence 59, Appl
C 20	35	16.4	2840	15	US-10-264-820-26	Sequence 26, Appl
C 21	35	16.4	2840	15	US-10-093-322-23	Sequence 23, Appl
C 22	35	16.4	2840	16	US-10-044-564-23	Sequence 23, Appl
C 23	35	16.4	2840	16	US-10-240-425-374	Sequence 374, App
C 24	35	16.4	2840	17	US-10-450-826-140	Sequence 140, App
C 25	35	16.4	2840	18	US-10-723-860-1559	Sequence 1559, Ap
C 26	35	16.4	3000	18	US-10-723-860-5982	Sequence 5982, Ap
C 27	34.8	16.3	6593	15	US-10-311-455-451	Sequence 451, App
C 28	34.6	16.2	83391	17	US-10-433-793-134	Sequence 124, App
C 29	34.4	16.1	456	16	US-10-424-599-6847	Sequence 6847, Ap
C 30	34.2	16.0	186	18	US-10-357-930-19457	Sequence 19457, A
C 31	34.2	16.0	199	18	US-10-357-930-55273	Sequence 55273, A
C 32	34.2	16.0	756	10	US-09-814-353-6226	Sequence 6226, Ap
C 33	34.2	16.0	756	10	US-09-814-353-12504	Sequence 12504, A
C 34	34.2	16.0	367378	15	US-10-312-841-2	Sequence 2, Appli
C 35	34	15.9	544	13	US-10-027-632-63376	Sequence 63376, A
C 36	34	15.9	544	13	US-10-027-632-63377	Sequence 63377, A
C 37	34	15.9	544	13	US-10-027-632-63378	Sequence 63378, A
C 38	34	15.9	544	15	US-10-027-632-63376	Sequence 63376, A
C 39	34	15.9	544	15	US-10-027-632-63377	Sequence 63377, A
C 40	34	15.9	544	15	US-10-027-632-63378	Sequence 63378, A
C 41	34	15.9	582	9	US-09-731-872-94	Sequence 94, Appl
C 42	34	15.9	582	10	US-09-876-997-94	Sequence 94, Appl
C 43	34	15.9	634	13	US-10-027-632-37987	Sequence 37987, A
C 44	34	15.9	634	13	US-10-027-632-37988	Sequence 37988, A
C 45	34	15.9	634	13	US-10-027-632-37989	Sequence 37989, A

#### ALIGNMENTS

#### RESULT 1

US-09-770-149-358/c  
; Sequence 358, Application US/09770149  
; Patent No. US20020059663A1  
; GENERAL INFORMATION:  
; APPLICANT: Gorlach, Jorn  
; APPLICANT: An, Yong-Qiang  
; APPLICANT: Hamilton, Carol M.  
; APPLICANT: Price, Jennifer L.  
; APPLICANT: Raines, Tracy M.  
; APPLICANT: Yu, Yang  
; APPLICANT: Rameaka, Joshua G.  
; APPLICANT: Page, Amy  
; APPLICANT: Matthew, Abraham V.  
; APPLICANT: Ledford, Brooke L.  
; APPLICANT: Woessner, Jeffrey P.  
; APPLICANT: Haas, William David  
; APPLICANT: Garcia, Carlos A.  
; APPLICANT: Kricker, MaJa  
; APPLICANT: Slader, Ted  
; APPLICANT: Davis, Keith R.  
; APPLICANT: Allen, Keith  
; APPLICANT: Hoffman, Neil  
; APPLICANT: Hurban, Patrick  
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis  
; TITLE OF INVENTION: thaliana  
; FILE REFERENCE: 2024 (PARA-013PRV)  
; CURRENT APPLICATION NUMBER: US/09/770,149  
; PRIOR FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: 60/178,506  
; NUMBER OF SEQ ID NOS: 999  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 358  
; LENGTH: 678

```
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-770-149-358

Query Match
Best Local Similarity 18.9%; Score 40.4; DB 9; Length 678;
Matches 68; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 101 TGGAGTACTGTGAAGAGTTGTCATGAAGTTTCCCAAGGACTTTTACTATGTGAATTA 160
Db 120 TAGATTGAAGAGAACTATGGGAATTAAGTTTGAATTATGTAATGTTTATGTTGA 61

QY 161 ATTGTCAAACCTAGTAGTCAGATCAATAAAATTTTACGTGGAATAAAAAA 214
Db 60 GTTGTAACTTGTGTTTGCATAATAAATCGTTTGTAGTTTAAAAA 7

RESULT 2
US-10-052-482-88
; Sequence 88, Application US/10052482
; Publication No. US20040072264A1
; GENERAL INFORMATION:
; APPLICANT: Engelhard, Eric
; APPLICANT: Morris, David
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER
; FILE REFERENCE: A-71087/RMS/DCF
; CURRENT APPLICATION NUMBER: US/10/052,482
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 241
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 88
; LENGTH: 60940
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (5047)..(7943)
; OTHER INFORMATION: "n" at positions 5047 to 7943 can be any base
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (35382)..(35843)
; OTHER INFORMATION: "n" at positions 35382 to 35843 can be any base
US-10-052-482-88

Query Match
Best Local Similarity 17.9%; Score 38.2; DB 16; Length 60940;
Matches 70; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 89 TCCCAAGTTATTGGAGTACTGTGAAGAGTTTGTCTATGAAGTTTCCCAAGGACTTTAC 148
Db 53600 TCACAAGAAATCATAGATTCAATAAAGAGTGAAGAGTAAATTTTACTTAAATAAT 53659

QY 149 TATGTGAATTAATTTGTCATGAATCAATAAAATTTTACGTGGAATAAAAA 208
Db 53660 AATTAATAATAATTTTAAATCATAGACATATAAGAACTTACCAGGAGAAAGAA 53719

QY 209 AAA 211
Db 53720 AAA 53722

RESULT 3
US-10-602-494-312/c
; Sequence 312, Application US/10602494
; Publication No. US20040265833A1
; GENERAL INFORMATION:
; APPLICANT: Cathy Lofton-Day
; APPLICANT: Andrew Sledziewski
; APPLICANT: Jeff Thomas

; APPLICANT: Robert W. Day
; APPLICANT: Lori Tonnes-Priddy
; APPLICANT: Karen Cardon
; TITLE OF INVENTION: Methods and nucleic acids for the analysis of colorectal cell
; FILE REFERENCE: 47675-45
; CURRENT APPLICATION NUMBER: US/10/602,494
; CURRENT FILING DATE: 2003-06-23
; NUMBER OF SEQ ID NOS: 385
; SEQ ID NO 312
; LENGTH: 3095
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-602-494-312

Query Match
Best Local Similarity 17.8%; Score 38; DB 18; Length 3095;
Matches 62; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 113 AAGAGTTTCGTCTATGAAGTTTCCCAAGGACTTTTACTATGTGAATTAATTTGTCAACTA 172
Db 230 AAAATCTTTATAATAATTTTACAAAAATAAATTACAAAATTAATTAATTTTACAACTA 171

QY 173 GTAGTCAGATCAATAAAATTTTACGTGGAATAAAAAA 214
Db 170 TAACTCTCTCAAAAAATAAATAAATAAACAACACAA 129

RESULT 4
US-09-925-297-261
; Sequence 261, Application US/09925297
; Patent No. US20020081659A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA105
; CURRENT APPLICATION NUMBER: US/09/925,297
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05989
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 928
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 261
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (4)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (7)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (16)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (25)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (35)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-297-261

Query Match
Best Local Similarity 17.7%; Score 37.8; DB 9; Length 2116;
Matches 81; Conservative 1; Mismatches 73; Indels 0; Gaps 0;

QY 60 ACATTTCCGATGTTCTCGAAAAGGACTTCCCAAGTATTTCGAGTACTGTGAAAGAGT 119
```

Db 1841 AGAATGTGAGCGGCTTTCAGAGACAGCTCCATAAACTGCTGGAGGCTGGGAAAAAAT 1900  
Qy 120 TCCTCATGAAGTTTCCCAAGAGACTTTTACTATGTGAATTAATTTGTCAAACTAGTAGTCA 179  
Db 1901 TTGTGATGCATGCTTATATGTAAGCACCTCTTTAGATTAATGCGAAATTTGGTGATGGTA 1960  
Qy 180 GATCAATAAAATTTTACGTGGAAAAA 214  
Db 1961 AAAAAAAAAATTTAAAAA 1995

## RESULT 5

US-10-023-896-31  
; Sequence 31, Application US/10023896  
; Publication No. US2003002776A1  
; GENERAL INFORMATION:  
; APPLICANT: Victor Roschke  
; TITLE OF INVENTION: 29 Human Cancer Associated Proteins  
; FILE REFERENCE: PA004P1  
; CURRENT APPLICATION NUMBER: US/10/023,896  
; CURRENT FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: unassigned  
; PRIOR FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: PCT/US00/23794  
; PRIOR FILING DATE: 2000-08-30  
; PRIOR APPLICATION NUMBER: 60/152,296  
; PRIOR FILING DATE: 1999-09-03  
; PRIOR APPLICATION NUMBER: 60/158,003  
; PRIOR FILING DATE: 1999-10-06  
; NUMBER OF SEQ ID NOS: 138  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 31  
; LENGTH: 2116  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (4)..(4)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc\_feature  
; LOCATION: (7)..(7)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc\_feature  
; LOCATION: (16)..(16)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc\_feature  
; LOCATION: (25)..(25)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc\_feature  
; LOCATION: (35)..(35)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-10-023-896-31

Query Match 17.7%; Score 37.6; DB 14; Length 2116;  
Best Local Similarity 52.3%; Pred. No. 3.4;  
Matches 81; Conservative 1; Mismatches 73; Indels 0; Gaps 0;  
Qy 60 ACATNTTCGATGTTTCCCAAGAGACTTCCCAAGTATTGGAGTACTGTGAAGAGT 119  
Db 1841 AGAATGTGAGCGGCTTTCAGAGACAGCTCCATAAACTGCTGGAGGCTGGGAAAAAAT 1900  
Qy 120 TCCTCATGAAGTTTCCCAAGAGACTTTTACTATGTGAATTAATTTGTCAAACTAGTAGTCA 179  
Db 1901 TTGTGATGCATGCTTATATGTAAGCACCTCTTTAGATTAATGCGAAATTTGGTGATGGTA 1960  
Qy 180 GATCAATAAAATTTTACGTGGAAAAA 214  
Db 1961 AAAAAAAAAATTTAAAAA 1995

## RESULT 6

US-10-425-115-15560/c

; Sequence 15560, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(5322)B  
; FILE REFERENCE: 38-21(5322)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 15560  
; LENGTH: 2782  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_114191C.1  
US-10-425-115-15560

Query Match 17.4%; Score 37.2; DB 18; Length 2782;  
Best Local Similarity 56.6%; Pred. No. 5.5;  
Matches 69; Conservative 0; Mismatches 53; Indels 0; Gaps 0;  
Qy 93 AAAGTTATTGGAGTACTGTGAAAGAGTTCGTCAATGAAGTTTCCAAAGGACTTTTACTATG 152  
Db 408 ACACATTTTGGCGTACTGTATTGTTTCTCTGTGTGTCAGCAATAGATTTTTCATTC 349  
Qy 153 TGAATTAATTTGCAAACTAGTAGTCAGATCAATAAATTTTACGTGGAAAAA 212  
Db 348 TAAATTAAGTGAATGTTTACTTGTGAATATATGTTTGTGAATGCAAAAAA 289  
Qy 213 AA 214  
Db 288 AA 287

## RESULT 7

US-10-282-122A-17285  
; Sequence 17285, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27

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; PRIORITY APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17285
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Clostridium difficile
US-10-282-122A-17285

Query Match      16.9%; Score 36.2; DB 16; Length 1344;
Best Local Similarity 60.8%; Pred. No. 7.9;
Matches 59; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 115 AGAGTTGCTCATGAAGTTTCCCAAGGACCTTACTATGTGAATTAATTTGTCAAACTAGT 174
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 894 AAAGATTGCAAGAGATTTTTGAAGACCTTAAGTAATGATAATTAATTAATAAGT 953

QY 175 AGTCAGATCAATAAATTTTACGTGGAAAAA 211
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 954 TTTAATTAATAACAATATCATCATGATTATAGATAGAA 990

RESULT 8
US-10-172-086-70
; Sequence 70, Application US/10172086
; Publication No. US20030113750A1
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Method and nucleic acids for the differentiation
; FILE REFERENCE: of prostate tumors
; CURRENT APPLICATION NUMBER: US/10/172,086
; CURRENT FILING DATE: 2002-06-13
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 70
; LENGTH: 5001
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-172-086-70

Query Match      16.7%; Score 35.8; DB 15; Length 5001;
Best Local Similarity 49.7%; Pred. No. 17;
Matches 91; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 20 AACAGTCTTCTCAATTGGCAACTGCTATATCATCTCCGCAACATTTCCGATGTTCTCG 79
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1756 AAAAGTAGTTTGAATAATGTTAGATAGAGATTTTGAAAAATAATTTTGAAGTTTTTA 1815

QY 80 AAAGAGACTTCCCAAGTTTGGACTACTGTGAAGAGTTTCGTCAATGAAGTTTCCCAA 139
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1816 AAAAGGTTAGCGAATGAAGAAAAAATGGGAGATGGTAATTAATGAATGAG 1875

QY 140 GGACTTTTACTATGTGAATTAATTAATTTGCAAACTAGTAGTCAGATCAATAAATTTTACGTG 199
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1876 TGATTTTAGATTGGATTTTGAATTTTAAATAAGTATATATAAATAAATAGTTTAAAG 1935

QY 200 GAA 202
    ||
Db 1936 AAA 1938

RESULT 9
US-10-240-452-74
; Sequence 74, Application US/10240452
; Publication No. US20030162194A1
```

```
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with Apoptosis
; FILE REFERENCE: 5013.1006
; CURRENT APPLICATION NUMBER: US/10/240,452
; CURRENT FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: PCT/EP01/03969
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 78
; SEQ ID NO 74
; LENGTH: 5001
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-240-452-74

Query Match      16.7%; Score 35.8; DB 15; Length 5001;
Best Local Similarity 49.7%; Pred. No. 17;
Matches 91; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 20 AACAGTCTTCTCAATTGGCAACTGCTATATCATCTCCGCAACATTTCCGATGTTCTCG 79
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1756 AAAAGTAGTTTGAATAATGTTAGATAGAGATTTTGAAAAATAATTTTGAAGTTTTTA 1815

QY 80 AAAGAGACTTCCCAAGTTTGGACTACTGTGAAGAGTTTCGTCAATGAAGTTTCCCAA 139
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1816 AAAAGGTTAGCGAATGAAGAAAAAATGGGAGATGGTAATTAATGAATGAG 1875

QY 140 GGACTTTTACTATGTGAATTAATTAATTTGCAAACTAGTAGTCAGATCAATAAATTTTACGTG 199
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1876 TGATTTTAGATTGGATTTTGAATTTTAAATAAGTATATATAAATAAATAGTTTAAAG 1935

QY 200 GAA 202
    ||
Db 1936 AAA 1938

RESULT 10
US-10-311-507-34
; Sequence 34, Application US/10311507
; Publication No. US20040115630A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Method and nucleic acids for the analysis of astrocytomas
; FILE REFERENCE: 5013.1013
; CURRENT APPLICATION NUMBER: US/10/311,507
; CURRENT FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: PCT/EP01/07538
; PRIOR FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 136
; SEQ ID NO 34
; LENGTH: 5001
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
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US-10-311-507-34

Query Match 16.7%; Score 35.8; DB 17; Length 5001;  
Best Local Similarity 49.7%; Pred. No. 17;  
Matches 91; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

Qy 20 AACAGTCTTCATTCGGAACGTCTATATCATCTCCGCAACACATTCGGATGTTCTCG 79  
Db 1756 AAAAGTAGTTGAAATGTTAGAAATAGAGATTTTGAATAATAATTTTGAAGTTTAA 1815  
Qy 80 AAAAGGACTTCCCAAGCTTATGGAGTACTGTGAAGAGTTCGTCATGAAGTTTCCCAA 139  
Db 1816 AAAAGGTAGGAAATGAAGAGAAAAAATGGAGATGGTAATTAATGAATGAG 1875

Qy 140 GGACTTTACTATGTGAATTAATTTGTCAACTAGTCTAGATCAATATAAATTTTACGTG 199  
Db 1876 TGATTTTAGATTGGATTTTGAATTTTAAATAAGTATATAAATAAATAAGTTTAAAG 1935

Qy 200 GAA 202  
Db 1936 AAA 1938

RESULT 11

US-10-480-846-70  
; Sequence 70, Application US/10480846  
; Publication No. US20040219549A1  
; GENERAL INFORMATION:  
; APPLICANT: Distler, Jürgen  
; APPLICANT: Model, Fabian  
; APPLICANT: Adorjan, Peter  
; TITLE OF INVENTION: Method and nucleic acids for the differentiation  
; TITLE OF INVENTION: of prostate and renal carcinomas  
; FILE REFERENCE: 47675-53  
; CURRENT APPLICATION NUMBER: US/10/480,846  
; PRIOR APPLICATION NUMBER: PCT/EP02/06603  
; PRIOR FILING DATE: 2003-12-12  
; PRIOR FILING DATE: 2002-06-14  
; PRIOR APPLICATION NUMBER: DE 10128509.4  
; PRIOR FILING DATE: 2001-06-14  
; NUMBER OF SEQ ID NOS: 116  
; SEQ ID NO 70  
; LENGTH: 5001  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-480-846-70

Query Match 16.7%; Score 35.8; DB 18; Length 5001;  
Best Local Similarity 49.7%; Pred. No. 17;  
Matches 91; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

Qy 20 AACAGTCTTCATTCGGAACGTCTATATCATCTCCGCAACACATTCGGATGTTCTCG 79  
Db 1756 AAAAGTAGTTGAAATGTTAGAAATAGAGATTTTGAATAATAATTTTGAAGTTTAA 1815  
Qy 80 AAAAGGACTTCCCAAGCTTATGGAGTACTGTGAAGAGTTCGTCATGAAGTTTCCCAA 139  
Db 1816 AAAAGGTAGGAAATGAAGAGAAAAAATGGAGATGGTAATTAATGAATGAG 1875

Qy 140 GGACTTTACTATGTGAATTAATTTGTCAACTAGTCTAGATCAATATAAATTTTACGTG 199  
Db 1876 TGATTTTAGATTGGATTTTGAATTTTAAATAAGTATATAAATAAATAAGTTTAAAG 1935

Qy 200 GAA 202  
Db 1936 AAA 1938

RESULT 12

US-09-764-855-13/c  
; Sequence 13, Application US/09764855

Patent No. US20020119919A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: P110  
; CURRENT APPLICATION NUMBER: US/09/764,855  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 334  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 13  
; LENGTH: 745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (56)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (58)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (397)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (512)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (687)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: SITE  
; LOCATION: (711)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-09-764-855-13

Query Match 16.4%; Score 35; DB 9; Length 745;  
Best Local Similarity 64.9%; Pred. No. 14;  
Matches 50; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

Qy 138 AGGACTTTACTATGTGAATTAATTTGTCAACTAGTCTAGATCAATATAAATTTTACG 197  
Db 98 AGGACATTTTATTTTAAATTAATTTTACAATCTAATGGTNANAAAAA 39  
Qy 198 TCGAAAAA 214  
Db 38 AAAAAA 22

RESULT 13

US-10-072-349-13/c  
; Sequence 13, Application US/10072349  
; Publication No. US20030054420A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: P110C1  
; CURRENT APPLICATION NUMBER: US/10/072,349  
; CURRENT FILING DATE: 2002-02-11  
; Prior Application removed - See file Wrapper or Palm  
; NUMBER OF SEQ ID NOS: 334  
; SOFTWARE: PatentIn Ver. 3.1  
; SEQ ID NO 13  
; LENGTH: 745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc\_feature

Db	2397	TCCAATTGTCACAAATTATGAAATTTGTTGATATAAAATGTCGCAAAATGAAGTTCTTTTTC	2333
QY	77	TGCAAAAGGACTTCCCAAGTTATTGGAGTACTGCTGAAGAGTTCGTCATGAAGTTTCCC	136
Db	2337	TGATTTAAAGTATCCCAACTGTCAAGTAATTTCTCATTTTCAGAGTGGAACTCAACTTTCC	2279
QY	137	AAAGGACTTTACTATGTGAATTAATAATGTCAAACCTAGTCTCAGATCAATATAAATTTTAC	196
Db	2278	---TCTCTGTACATTTATTTAACTCTCTCCATGTTATTAGGCAAGAAATATTTA	2222
QY	197	GTGGAAAAAATAAAAAA 213	
Db	2221	AATGAAGAAAAACAAA 2205	
<p>RESULT 15</p> <p>US-10-295-027-63/c</p> <p>; Sequence 63, Application US/10295027</p> <p>; Publication No. US20030232350A1</p> <p>; GENERAL INFORMATION:</p> <p>; APPLICANT: Afar, Daniel</p> <p>; APPLICANT: Aziz, Natasha</p> <p>; APPLICANT: Ginsberg, Wendy M.</p> <p>; APPLICANT: Gish, Kurt C.</p> <p>; APPLICANT: Glynn, Richard</p> <p>; APPLICANT: Hevezi, Peter A.</p> <p>; APPLICANT: Mack, David H.</p> <p>; APPLICANT: Murray, Richard</p> <p>; APPLICANT: Watson, Susan R.</p> <p>; APPLICANT: Eos Biotechnology, Inc.</p> <p>; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and</p> <p>; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer</p> <p>; FILE REFERENCE: 018501-012500US</p> <p>; CURRENT APPLICATION NUMBER: US/10/295,027</p> <p>; CURRENT FILING DATE: 2002-11-13</p> <p>; PRIOR APPLICATION NUMBER: US 09/663,733</p> <p>; PRIOR FILING DATE: 2000-09-15</p> <p>; PRIOR APPLICATION NUMBER: US 60/350,666</p> <p>; PRIOR FILING DATE: 2001-11-13</p> <p>; PRIOR APPLICATION NUMBER: US 60/335,394</p> <p>; PRIOR FILING DATE: 2001-11-15</p> <p>; PRIOR APPLICATION NUMBER: US 60/332,464</p> <p>; PRIOR FILING DATE: 2001-11-21</p> <p>; PRIOR APPLICATION NUMBER: US 60/334,393</p> <p>; PRIOR FILING DATE: 2001-11-29</p> <p>; PRIOR APPLICATION NUMBER: US 60/340,376</p> <p>; PRIOR FILING DATE: 2001-12-14</p> <p>; PRIOR APPLICATION NUMBER: US 60/347,211</p> <p>; PRIOR FILING DATE: 2002-01-08</p> <p>; PRIOR APPLICATION NUMBER: US 60/347,349</p> <p>; PRIOR FILING DATE: 2002-01-10</p> <p>; PRIOR APPLICATION NUMBER: US 60/355,250</p> <p>; PRIOR FILING DATE: 2002-02-08</p> <p>; PRIOR APPLICATION NUMBER: US 60/356,714</p> <p>; PRIOR FILING DATE: 2002-02-13</p> <p>; Remaining Prior Application data removed - See File wrapper or PALM.</p> <p>; NUMBER OF SEQ ID NOS: 1386</p> <p>; SOFTWARE: PatentIn Ver. 2.1</p> <p>; SEQ ID NO 63</p> <p>; LENGTH: 2820</p> <p>; TYPE: DNA</p> <p>; ORGANISM: Homo sapiens</p> <p>US-10-295-027-63</p>			
<p>Query Match 16.4%; Score 35; DB 15; Length 2820;</p> <p>Best Local Similarity 52.3%; Pred. No. 23;</p> <p>Matches 103; Conservative 0; Mismatches 90; Indels 4; Gaps 1;</p>			
QY	17	TGCAACAGCTTCTCAATTTGGCAACTGTCTATATCATTTCCGCAACACATTTTCGGATGTC	76
Db	2397	TCCAATTGTCACAAATTATGAAATTTGTTGATATAAAATGTCGCAAAATGAAGTTCTTTTTC	2338



Qy	77	TCGAAAGGACTTCCCAAGTTATTGGAGTACTGTGAAAGAGTTCGTCAATGAAGTTTCCC	136
Db	2337	TGATTAAAGTATCCCAACTGTCAAGTAATCTCATTTTCAGAGGTGGAACCAACTTTCC-	2279
Qy	137	AAAGGACTTTACTATGTGAATTAATAATTGTCAAACTAGTAGTCAGATCAATAAAATTTTAC	196
Db	2278	---TCTCTGTACATTATATTTAACTCCTCTCACATGTATTTAGGCAAGNAATATTTTA	2222
Qy	197	GTGGAATAAAAAAAAAA	213
Db	2221	AATGAGAGAAAAACAAA	2205

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 Job time : 257.043 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 21, 2005, 17:02:43 ; Search time 49.0695 Seconds  
(without alignments)  
3447.516 Million cell updates/sec

Title: US-09-437-450A-40  
Perfect score: 238  
Sequence: 1 ttttttttttttggaggga.....tacgtggcaaaaaaaaaa 238

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:  
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2: /cgn2\_6/prodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/prodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/prodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/prodata/1/ina/PCUTUS\_COMB.seq.\*  
6: /cgn2\_6/prodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	34	14.3	1605	4	US-09-248-796A-978
C 2	33.4	14.0	1208	3	US-09-461-474-11
C 3	32.8	13.8	459	4	US-09-270-767-9771
C 4	32.8	13.8	459	4	US-09-270-767-25053
C 5	32.4	13.6	495	4	US-09-270-767-28358
C 6	32.4	13.6	979	4	US-09-270-767-12569
C 7	32.4	13.6	1551	4	US-09-270-767-29950
C 8	32.4	13.6	1599	4	US-09-270-767-13884
C 9	32.4	13.6	1724	3	US-09-197-679A-1
C 10	31.8	13.4	832	4	US-09-621-976-2813
C 11	31.6	13.3	5183	2	US-08-870-518-3
C 12	31.4	13.2	6124	3	US-08-213-419-3
C 13	31.4	13.2	29733	3	US-09-302-812-38
C 14	31.4	13.2	29793	3	US-09-511-477-38
C 15	31.4	13.2	29793	3	US-09-511-507-38
C 16	31.2	13.1	342	4	US-09-270-767-3861
C 17	31.2	13.1	342	4	US-09-270-767-19143
C 18	31.2	13.1	696	3	US-09-227-357-69
C 19	31	13.0	1410	4	US-08-248-796A-1405
C 20	30.8	12.9	2244	4	US-09-601-198-149
C 21	30.6	12.9	2410	4	US-09-710-279-4405
C 22	30.6	12.9	3378	4	US-09-710-279-3608
C 23	30.6	12.9	5761	4	US-09-799-451-23
C 24	30.6	12.9	1664976	4	US-08-916-421B-1
C 25	30.6	12.9	1664376	4	US-09-692-570-1
C 26	30.4	12.8	401	4	US-09-643-597-266
C 27	30.4	12.8	401	4	US-09-480-884A-266

C 28	30.4	12.8	401	4	US-09-542-615A-266	Sequence 266, App
C 29	30.4	12.8	401	4	US-09-606-421B-266	Sequence 266, App
C 30	30.4	12.8	401	4	US-09-630-940B-266	Sequence 266, App
C 31	30.4	12.8	640681	4	US-09-790-988-1	Sequence 1, Appli
C 32	30.2	12.7	738	4	US-09-552-225A-10	Sequence 10, Appli
C 33	30.2	12.7	957	4	US-10-012-605C-7	Sequence 7, Appli
C 34	30.2	12.7	2604	4	US-10-101-464A-834	Sequence 834, App
C 35	30	12.6	9018	4	US-10-220-587-3	Sequence 3, Appli
C 36	29.8	12.5	1269	4	US-09-322-409-99	Sequence 99, Appli
C 37	29.8	12.5	1269	4	US-09-322-409-101	Sequence 101, App
C 38	29.8	12.5	1269	4	US-09-451-527-99	Sequence 99, Appli
C 39	29.8	12.5	1269	4	US-09-451-527-101	Sequence 101, App
C 40	29.8	12.5	1302	4	US-09-322-409-91	Sequence 91, Appli
C 41	29.8	12.5	1302	4	US-09-322-409-93	Sequence 93, Appli
C 42	29.8	12.5	1302	4	US-09-451-527-91	Sequence 91, Appli
C 43	29.8	12.5	1302	4	US-09-451-527-93	Sequence 93, Appli
C 44	29.8	12.5	3981	2	US-08-955-138-2	Sequence 2, Appli
C 45	29.6	12.4	477	1	US-08-313-608B-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1  
US-09-248-796A-978/c  
; Sequence 978, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 978  
; LENGTH: 1605  
; TYPE: DNA  
; ORGANISM: Candida albicans  
US-09-248-796A-978

Query Match	14.3%;	Score 34;	DB 4;	Length 1605;
Best Local Similarity	53.8%;	Pred. No. 0.57;		
Matches	70;	Conservative	0;	Mismatches 60; Indels 0; Gaps 0;
QY	75	ATTCCGCAATCATTTCCGATGTTCTCGAAAGGACTTCCCAAAGTATTGAGTACTG	134	
Db	1424	AATCTTAAACAAAATTCGCTAGATCTTGTAAGAAATCAAAAAATTTTCATCAATGAT	1365	
QY	135	TGNAAGAGTTCGTCATGAAGTTTACCAAGGACTTTACTATGTAATTAATGCAAA	194	
Db	1364	CGATACATTCATATATAGATTTCAGAAAAATTAATTAAGAAATCGGAAAAATTTTGAAA	1305	
QY	195	CTAGTAGTCA	204	
Db	1304	TTTGTTGTCA	1295	

RESULT 2  
US-09-461-474-11/c  
; Sequence 11, Application US/09461474  
; Patent No. 6278042  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Rafalski, Antoni  
; APPLICANT: Sakai, Hajime  
; TITLE OF INVENTION: Plant Metal Transporters  
; FILE REFERENCE: BB1303 US NA  
; CURRENT APPLICATION NUMBER: US/09/461,474

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; CURRENT FILING DATE: 1999-12-14
; EARLIER APPLICATION NUMBER: 60/112,562
; EARLIER FILING DATE: 1998-12-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 11
; LENGTH: 1208
; TYPE: DNA
; ORGANISM: Glycine max
US-09-461-474-11

Query Match      14.0%; Score 33.4; DB 3; Length 1208;
Best Local Similarity 54.5%; Pred. No. 0.78;
Matches 67; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 52 CAATTGGCACTGCTCTATTATCAATCCGCAATCACATTTCGGATGTTCTCGAAGGAC 111
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 864 CAACAGCCCCCTTCAAGCTTAGTAGCATCTATCTCAGAGGTGTGTTCTCCATCAGGAC 805
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 112 TTCCCAAAAGTTATTGGAGTACTGTGAAAGAGTTTCGTCATGAAGTTTACCCAAAGGACTTT 171
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 804 TTCCAAATGTTTCGAGCATGTTGATGTTGTCCTCCATAACAACTACTGAAAAGATTAG 745
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 172 ACT 174
    |||
Db 744 AGT 742

RESULT 3
US-09-270-767-9771/c
; Sequence 9771, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9771
; LENGTH: 459
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-9771

Query Match      13.8%; Score 32.8; DB 4; Length 459;
Best Local Similarity 49.4%; Pred. No. 0.82;
Matches 85; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 23 TCACGGCGGGATGCAACAGTCTTCTCTCAATTGGCACTGCTATTATCCATTCCGCA 82
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 203 TAATGGCAGTTAAGCTTAAGATGTTTGCAAGTGTGTCATTAAATTATATGTTATCGT 144
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 83 ATCACAATTCGGATGTTCTCGAAAAGGACTTCCCAAAGTTATTGGAGTACTGTGAAAGAG 142
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 143 CTATCAGTTATGATATGCTAAAATGTAATGTCATTTCATTTCAGTTTAAAGTTTAAAAA 84
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 143 TTGCTCATGAAGTTTACCCAAAGGACTTTTACTATGTGAATTAATTTGTCAAA 194
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 83 TTGTAAGCTTTTGGCCCTCTGCATGTGAAATGTATATTTTACCGGCAAA 32
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 4
US-09-270-767-25053/c
; Sequence 25053, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
```

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; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25053
; LENGTH: 459
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-25053

Query Match      13.8%; Score 32.8; DB 4; Length 459;
Best Local Similarity 49.4%; Pred. No. 0.82;
Matches 85; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 23 TCACGGCGGGATGCAACAGTCTTCTCTCAATTGGCACTGCTATTATCCATTCCGCA 82
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 203 TAATGGCAGTTAAGCTTAAGATGTTTGCAAGTGTGTCATTAAATTATATGTTATCGT 144
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 83 ATCACAATTCGGATGTTCTCGAAAAGGACTTCCCAAAGTTATTGGAGTACTGTGAAAGAG 142
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 143 CTATCAGTTATGATATGCTAAAATGTAATGTCATTTCATTTCAGTTTAAAGTTTAAAAA 84
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 143 TTGCTCATGAAGTTTACCCAAAGGACTTTTACTATGTGAATTAATTTGTCAAA 194
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 83 TTGTAAGCTTTTGGCCCTCTGCATGTGAAATGTATATTTTACCGGCAAA 32
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 5
US-09-270-767-28358/c
; Sequence 28358, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28358
; LENGTH: 495
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-28358

Query Match      13.6%; Score 32.4; DB 4; Length 495;
Best Local Similarity 62.2%; Pred. No. 1.1;
Matches 51; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 157 TACCCAAAGGACTTTACTATGTGAATTAATTTCTCAACTAGTAGCAGATCAATAAAT 216
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 185 TATGCAATAAATTTACATTTAGAAATAAATTTGTTGTTTACCCTACAAACAAAAAT 126
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 217 TCTACGTGGCAAAAAA 238
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 125 ACNAAATGAAAAA 104
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 6
US-09-270-767-12569/c
; Sequence 12569, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12569
; LENGTH: 979
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-12569
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QY 217 TCACGTGGCAAAAAAAAAA 238



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Qy 214 AATTCTACGTGCACAAAAA 238
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RESULT 15
US-09-511-507-38/c
; Sequence 38, Application US/09511507
; Patent No. 6395543
; GENERAL INFORMATION:
; APPLICANT: JACOBSON, Myron K.
; APPLICANT: JACOBSON, Elaine L.
; APPLICANT: AME, Jean-Christophe
; APPLICANT: LIN, Winston
; TITLE OF INVENTION: GENES ENCODING SEVERAL POLY (ADP-RIBOSE) GLYCOPOLYMERASE (PARG) EN
; TITLE OF INVENTION: THE PROTEINS AND FRAGMENTS THEREOF, AND ANTIBODIES IMMUNOREACTIV
; TITLE OF INVENTION: THEREWITH
; FILE REFERENCE: NIAD 201
; CURRENT APPLICATION NUMBER: US/09/511,507
; CURRENT FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/302,812
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 38
; SEQ ID NO 38
; LENGTH: 29793
; TYPE: DNA
; ORGANISM: Caenorhabditis elegans
; FEATURE:
US-09-511-507-38

Query Match 13.2%; Score 31.4; DB 3; Length 29793;
Best Local Similarity 51.0%; Pred. NO. 11;
Matches 74; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

Qy 94 GATGTTCTCGAAAAGGACTTCCCAAGTTATTGCGAGTACTGTGGAAGAGTTGCTCATGAA 153
Db 21188 GATTTTCTACATTCCTATTGCCAACGATGTTTCAATAATGTTAATGAAATTTTCTTGT 21129

Qy 154 GTTTACCCAAAGGACTTTTACTATGTCAATTTAAATTTGTCAAACTAGTAGTCAGATCAATAA 213
Db 21128 TTTTTCCTATTAAAGTGAAATTCAAATATTTTATTGTCATATGCTTGGTTCTAGTAAATT 21069

Qy 214 AATTCTACGTGCACAAAAA 238
Db 21068 TTTAATTTTTTGA 21044

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Job time : 54.0695 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 21, 2005, 17:02:48 ; Search time 279.197 Seconds  
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Gapop 10.0 , Gapext 1.0

Searched: 430275 seqs, 2872944193 residues

Total number of hits satisfying chosen parameters: 8600550

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*
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- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq:\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq:\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq:\*
- 18: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 19: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 20: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 21: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	37	15.5	263	16	US-10-242-535A-49714 Sequence 49714, A
2	37	15.5	263	16	US-10-085-783A-49714 Sequence 49714, A
3	36.2	15.2	4233	16	US-10-041-018-135 Sequence 135, App
C 4	35.8	15.0	1510	18	US-10-739-930-3393 Sequence 3393, App
C 5	35.6	15.0	330926	18	US-10-719-993-7048 Sequence 7048, App
6	34.6	14.5	199	18	US-10-357-930-55273 Sequence 55273, A
7	34.2	14.4	308	16	US-10-424-599-87084 Sequence 87084, A
C 8	34.2	14.4	614	13	US-10-027-632-94282 Sequence 94282, A
C 9	34.2	14.4	614	13	US-10-027-632-305384 Sequence 305384, A
C 10	34.2	14.4	614	15	US-10-027-632-94282 Sequence 94282, A
C 11	34.2	14.4	614	15	US-10-027-632-305384 Sequence 305384, A
12	34.2	14.4	1560	18	US-10-739-930-3389 Sequence 3389, App

13	33.4	14.0	404	10	US-09-918-995-17073 Sequence 17073, A
C 14	33.4	14.0	499	9	US-09-783-590-5790 Sequence 5790, App
C 15	33.2	13.9	8781	15	US-10-311-455-1659 Sequence 1659, App
C 16	32.8	13.8	496	18	US-10-425-115-78614 Sequence 78614, A
C 17	32.8	13.8	678	9	US-09-770-149-358 Sequence 358, App
C 18	32.8	13.8	745	9	US-09-764-855-13 Sequence 13, Appl
C 19	32.8	13.8	745	14	US-10-072-349-13 Sequence 13, Appl
C 20	32.8	13.8	3423	16	US-10-398-221-3632 Sequence 3632, App
C 21	32.8	13.8	83391	17	US-10-433-793-124 Sequence 124, App
C 22	32.6	13.7	6117	15	US-10-240-485-43 Sequence 43, Appl
C 23	32.6	13.7	37184	17	US-10-433-793-107 Sequence 107, App
C 24	32.4	13.6	698	15	US-10-172-118-765 Sequence 765, App
C 25	32.4	13.6	698	16	US-10-342-887-765 Sequence 765, App
C 26	32.2	13.5	15373	15	US-10-311-455-440 Sequence 440, App
C 27	32.2	13.5	251364	14	US-10-175-523-58 Sequence 58, Appl
C 28	32.2	13.5	251364	14	US-10-175-523-61 Sequence 61, Appl
C 29	32.2	13.5	251364	14	US-10-175-523-79 Sequence 79, Appl
C 30	32	13.4	2133	14	US-10-074-478-86 Sequence 86, Appl
C 31	31.8	13.4	607	13	US-10-027-632-224261 Sequence 224261, A
C 32	31.8	13.4	607	15	US-10-027-632-224261 Sequence 224261, A
C 33	31.8	13.4	2000	9	US-09-938-842A-4562 Sequence 4562, App
C 34	31.8	13.4	2000	11	US-09-938-842A-4562 Sequence 4562, App
C 35	31.8	13.4	6565	16	US-10-221-714A-187 Sequence 187, App
C 36	31.8	13.4	96597	11	US-09-997-722-289 Sequence 289, App
C 37	31.8	13.4	402850	10	US-09-844-653-5 Sequence 5, Appl
C 38	31.6	13.3	506	17	US-10-021-323-5635 Sequence 5635, App
C 39	31.6	13.3	644	10	US-09-814-353-18833 Sequence 18833, A
C 40	31.6	13.3	778	15	US-10-106-698-589 Sequence 589, App
C 41	31.6	13.3	1873	14	US-10-175-523-37 Sequence 37, Appl
C 42	31.6	13.3	1873	18	US-10-723-860-6238 Sequence 6238, App
C 43	31.6	13.3	1887	17	US-10-437-963-45512 Sequence 45512, A
C 44	31.6	13.3	2034	11	US-09-973-278-872 Sequence 872, App
C 45	31.6	13.3	2787	11	US-09-973-278-873 Sequence 873, App

#### ALIGNMENTS

#### RESULT 1

US-10-242-535A-49714  
; Sequence 49714, Application US/10242535A  
; Publication No. US20040013663A1  
; GENERAL INFORMATION:  
; APPLICANT: ChondroGene Inc.  
; APPLICANT: Liew, C.C.  
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis  
; FILE REFERENCE: 4231/2005  
; CURRENT APPLICATION NUMBER: US/10/242,535A  
; PRIOR FILING DATE: 2002-09-12  
; PRIOR APPLICATION NUMBER: US 10/085,783  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: US 60/305,340  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/275,017  
; PRIOR FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: US 60/271,955  
; PRIOR FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 58994  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 49714  
; LENGTH: 263  
; TYPE: DNA  
; ORGANISM: Human  
US-10-242-535A-49714

Query Match 15.5%; Score 37; DB 16; Length 263;  
Best Local Similarity 52.2%; Pred. No. 1;  
Matches 82; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

Qy 56 TGGCAACTGCTATTTCACATCCGAATCCATTCGGATGTTCTCGAAAGACTTCC 115  
Db 49 TGGTAAAGATTGATTAGTTACCTCTATTTTAAATGGAGTTTAAAGATTG 108

QY 116 CAAAGTTATTGGAGTACTGTGAAGAGTTTCGTATGAGTTTACCCAAAGGACTTTACTA 175  
DB 109 CTTTGCCTTGATAGAAATTGTAACATCATGCTCCAAGAAATATATATCCAAATATTTACTA 168  
QY 176 TGTGAATTAATTTGTCAACTAGTACTAGTCAGATCAATA 212  
DB 169 TAAAAAGTAAATTTTAAACTTTATGTTAAATTAACA 205

## RESULT 2

US-10-085-783A-49714  
; Sequence 49714, Application US/10085783A  
; Publication No. US20040037841A1  
; GENERAL INFORMATION:  
; APPLICANT: ChondroGene Inc.  
; APPLICANT: Liew, C.C.  
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis  
; FILE REFERENCE: 4231/2002  
; CURRENT APPLICATION NUMBER: US/10/085,783A  
; CURRENT FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: US 60/305,340  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/275,017  
; PRIOR FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: US 60/271,955  
; PRIOR FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 58994  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 49714  
; LENGTH: 263  
; TYPE: DNA  
; ORGANISM: Human  
US-10-085-783A-49714

Query Match 15.5%; Score 37; DB 16; Length 263;  
Best Local Similarity 52.2%; Pred. No. 1;  
Matches 82; Conservative 0; Mismatches 75; Indels 0; Gaps 0;  
QY 56 TGGCAACTGTCTATTCCATCCGCAATCCAGATTCGGATGTTCTCGAAAGGACTTCC 115  
DB 49 TGTAAAGATTGATATAGTACTCATTTTATCTTAATGAGATTTAAGTAAAGTTG 108  
QY 116 CAAAGTTATTGGAGTACTGTGAAGAGTTTCGTATGAGTTTACCCAAAGGACTTTACTA 175  
DB 109 CTTTGCCTTGATAGAAATTGTAACATCATGCTCCAAGAAATATATATCCAAATATTTACTA 168  
QY 176 TGTGAATTAATTTGTCAACTAGTACTAGTCAGATCAATA 212  
DB 169 TAAAAAGTAAATTTTAAACTTTATGTTAAATTAACA 205

## RESULT 3

US-10-041-018-135  
; Sequence 135, Application US/10041018  
; Publication No. US20040072323A1  
; GENERAL INFORMATION:  
; APPLICANT: Matsuda, Seichi P.T.  
; APPLICANT: Hart, Elizabeth A.  
; TITLE OF INVENTION: Diterpene-Producing Unicellular Organism  
; FILE REFERENCE: P02080US1/10025547  
; CURRENT APPLICATION NUMBER: US/10/041,018  
; CURRENT FILING DATE: 2002-01-07  
; PRIOR APPLICATION NUMBER: US 60/259880  
; PRIOR FILING DATE: 2001-01-05  
; NUMBER OF SEQ ID NOS: 413  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 135  
; LENGTH: 4233  
; TYPE: DNA  
; ORGANISM: Gossypium hirsutum  
US-10-041-018-135

Query Match 15.2%; Score 36.2; DB 16; Length 4233;

Best Local Similarity 55.0%; Pred. No. 5.6;  
Matches 71; Conservative 0; Mismatches 58; Indels 0; Gaps 0;  
QY 110 ACTTCCCAAGTTATTGGAGTACTGTGAAGAGTTTCGTATGAGTTTACCCAAAGGACT 169  
DB 236 ACTTCTCAGTTTCATAAAGTATAGGATGGAATTCCTAAATTAACCTTTTAACTCAA 295  
QY 170 TTAATAATGTAATTAATTTGTCAACTAGTACTAGTCAGATCAATAAATTTCTACCTGCAAA 229  
DB 296 TAAGTAAATGGATTAATTTCCAGAAATTAATAACAGAAAAATTAATTTCAAAAGTATGA 355  
QY 230 AAAAAAAA 238  
DB 356 AATAAAAA 364

## RESULT 4

US-10-739-930-3393/c  
; Sequence 3393, Application US/10739930  
; Publication No. US20040216190A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH  
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53377)B  
; CURRENT APPLICATION NUMBER: US/10/739,930  
; CURRENT FILING DATE: 2003-12-18  
; NUMBER OF SEQ ID NOS: 11088  
; SEQ ID NO 3393  
; LENGTH: 1510  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: GLYMA-23APR03-CLUSTER2530\_2  
US-10-739-930-3393

Query Match 15.0%; Score 35.8; DB 18; Length 1510;  
Best Local Similarity 65.7%; Pred. No. 4.8;  
Matches 69; Conservative 0; Mismatches 32; Indels 4; Gaps 1;  
QY 1 TTTTCTTTTGGGAGGAATCACGGCGGC---GGATGCAACAGTCTTCTCTCAATT 56  
DB 1395 TTTTCTTTTGGGAGGAATTAAGGCGGCTCAGGAGCACTGCCATCTCCATTA 1336  
QY 57 GCAACTGTCTATTATCCATTCGCAATCACATTCGGATGTTCT 101  
DB 1335 TCAACTTTCCGCTAGCAATTATGCGAATACATTAGTAATGTTT 1291

## RESULT 5

US-10-719-993-7048/c  
; Sequence 7048, Application US/10719993  
; Publication No. US20040265849A1  
; GENERAL INFORMATION:  
; APPLICANT: CARGILL, Michele et al.  
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH  
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001496  
; CURRENT APPLICATION NUMBER: US/10/719,993  
; CURRENT FILING DATE: 2003-11-24  
; NUMBER OF SEQ ID NOS: 55342  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7048  
; LENGTH: 330926  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(330926)  
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-7)  
US-10-719-993-7048

Query Match 15.0%; Score 35.6; DB 18; Length 330926;

Query Match	14.4%	Score 34.2;	DB 13;	Length 614;
Best Local Similarity	64.6%;	Pred. No. 9.7;		
Matches	51;	Conservative 0;	Mismatches 28;	Indels 0; Gaps 0;

  

Qy	160	CCAAAGAC	TTTACTAT	GTGCAAT	TAAATT	TGTC	CAAACTAG	TAGTCAG	ATCAAT	AAAAAT	TCT	219
Db	180	CCCAAT	GTAGT	CCTAAT	GTTTAA	TTAAAT	AATAAG	AAAGG	CAGGA	ATAA	AAAAAT	121

  

Qy	220	ACGTGG	CAAAAA	AAAAAA	AAAA	238
Db	120	ATGTGA	CAACAA	AAAAAC	AGAA	102

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 94282
; LENGTH: 614
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-94282

Query Match
Best Local Similarity 14.4%; Score 34.2; DB 15; Length 614;
Matches 51; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

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DB 180 CCAATGTAGTCCTTAATTTAAATATAAGAAAGGAGGCGAAGATATAAATAAT 121
QY 220 ACGTGGCAAAAAA 238
DB 120 ATGTGACACAAAAACAGA 102

RESULT 11
US-10-027-632-305384/c
; Sequence 305384, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 305384
; LENGTH: 614
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-305384

Query Match
Best Local Similarity 14.4%; Score 34.2; DB 13; Length 614;
Matches 51; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

QY 160 CCAAAGGACTTTACTATGTGAATTAATTTGCAAACTAGTGTAGTCAGATCAATAAAATTTCT 219
DB 180 CCAATGTAGTCCTTAATTTAAATATAAGAAAGGAGGCGAAGATATAAATAAT 121
QY 220 ACGTGGCAAAAAA 238
DB 120 ATGTGACACAAAAACAGA 102

RESULT 10
US-10-027-632-94282/c
; Sequence 94282, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 94282
; LENGTH: 614
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-94282

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; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53377)B  
; CURRENT APPLICATION NUMBER: US/10/739,930  
; CURRENT FILING DATE: 2003-12-18  
; NUMBER OF SEQ ID NOS: 11088  
; SEQ ID NO 3389  
; LENGTH: 1560  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: GLYMA-23APR03-CLUSTER246\_1  
US-10-739-930-3389

Query Match 14.4%; Score 34.2; DB 18; Length 1560;  
Best Local Similarity 54.3%; Pred. No. 14;  
Matches 69; Conservative 0; Mismatches 58; Indels 0; Gaps 0;  
QY 112 TTCCCAAGTATTGGAGTACTGTGAAGAGTTTCGTCATCACTTACCCAAAGGACTTT 171  
DB 1260 TTCTCTTTTAAAGCACTAACTTAACTTATCTTATTTAGCTAGTAGCATCATCTGT 1319  
QY 172 ACTATGTAATTAATTTGTCAAACTAGTAGTCAGATCAATAAATTTCTAGTGGCAAAA 231  
DB 1320 TTATGTAAATTCATTGGCCGGAATAAGTAGTAAGATTATACCAAGTGTTCACGTGCAAAA 1379  
QY 232 AAAAAA 238  
DB 1380 AAAAAA 1386

RESULT 13  
US-09-918-995-17073  
; Sequence 17073, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: US/09/235,076  
; PRIOR FILING DATE: 1999-01-20  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 17073  
; LENGTH: 404  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(404)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-918-995-17073

Query Match 14.0%; Score 33.4; DB 10; Length 404;  
Best Local Similarity 51.8%; Pred. No. 14;  
Matches 100; Conservative 0; Mismatches 91; Indels 2; Gaps 1;  
QY 46 TTCTCTCAATGCGCACTGCTATTATCCATTCGCGCAATCACATTTGGATGTTCTCGAA 105  
DB 161 TTGTGTATATTGACAGAGCTCTTTTATAAAGCAAAATTTTAAATTTTGTACTAGAA 220  
QY 106 AAGGACTTCCCAAGTATTGGAGTACTGTGAAGAGTTTCGTCATGAAGTTACCCAAAG 165  
DB 221 AAAAAATTGAACATTTTAGTCTTGGTTATAAAAAATGTTAAATTCAGAA--TTAGTTAAT 278  
QY 166 GACTTTACTATGTGAATTAATTTGTCAAACTAGTAGTCAGATCAATAAATTTCTACGTGG 225  
DB 279 GCCTTAATTAACATAATTAATACGTTTGGACACTTAAAGAGCTCTAAATTTTCTGTAA 338  
QY 226 CAAAAA 238  
|||||

Db 339 AAAAAAAAAA 351  
RESULT 14  
US-09-783-590-5790/c  
; Sequence 5790, Application US/09783590  
; Patent No. US20020110850A1  
; GENERAL INFORMATION:  
; APPLICANT: Dillon, Patrick J.  
; APPLICANT: Haseltine, William A.  
; APPLICANT: Li, Haodong  
; APPLICANT: Rosen, Craig A.  
; APPLICANT: Ruben, Steven M.  
; TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 16.2  
; FILE REFERENCE: PO-16.2C1  
; CURRENT APPLICATION NUMBER: US/09/783,590  
; CURRENT FILING DATE: 2000-02-15  
; PRIOR APPLICATION NUMBER: 08/420,856  
; PRIOR FILING DATE: 1995-04-12  
; PRIOR APPLICATION NUMBER: 08/346,731  
; PRIOR FILING DATE: 1994-11-21  
; NUMBER OF SEQ ID NOS: 12485  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5790  
; LENGTH: 499  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (9)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc feature  
; LOCATION: (127)  
; OTHER INFORMATION: n equals a,t,g, or c  
; NAME/KEY: misc feature  
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; OTHER INFORMATION: n equals a,t,g, or c  
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NAME/KEY: misc feature  
LOCATION: (497)  
OTHER INFORMATION: n equals a,t,g, or c  
US-09-783-590-5790

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Best Local Similarity 50.3%; Pred. No. 15;  
Matches 76; Conservative 0; Mismatches 75; Indels 0; Gaps 0;  
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Qy 126 GGAGTACTGTGAAGAGTTCGTCATGAAGTTTACCCAAAGGACTTTTACTATGTGAATTAA 185  
Db 221 TAAAGTTGTTANCAACATTTTGATTTTGGGTTATTTCAGAACATCTAACAGCATGTTCTAA 162  
Qy 186 ATTGTCAAACTAGTAGTCAGATCAATAAAAT 216  
Db 161 AIGTTCAAAATTAAGGTAATTACATGAAT 131

RESULT 15

US-10-311-455-1659/c  
Sequence 1659, Application US/10311455  
Publication No. US20030143606A1  
GENERAL INFORMATION:  
APPLICANT: OLEK, Alexander  
APPLICANT: PIEPENBROCK, Christian  
APPLICANT: BERLIN, Kurt  
TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determining Cytosine Methylation  
FILE REFERENCE: 5013.1014  
CURRENT APPLICATION NUMBER: US/10/311,455  
CURRENT FILING DATE: 2002-12-16  
PRIOR APPLICATION NUMBER: PCT/EP01/07537  
PRIOR FILING DATE: 2001-07-02  
PRIOR APPLICATION NUMBER: DE 10032529.7  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: DE 10043826.1  
PRIOR FILING DATE: 2000-09-01  
NUMBER OF SEQ ID NOS: 2424  
SEQ ID NO 1659  
LENGTH: 8781  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-311-455-1659

Query Match 13.9%; Score 33.2; DB 15; Length 8781;  
Best Local Similarity 55.1%; Pred. No. 58;  
Matches 65; Conservative 0; Mismatches 53; Indels 0; Gaps 0;  
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Db 191 TTATATAAATACTTTATATATACTATATAATAAATACTTTTATATAATACTTTTATTACTA 132  
Qy 181 ATTAATTTGCAAACTAGTAGTCAGATCAATAAAATTTACGTCGCAAAAAA 238  
Db 131 ATTATAATAACAATATATTAAACATATAAAACATAAATACTACCTTCTAAAAAACTAAA 74

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Job time : 283.197 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 21, 2005, 17:02:43 ; Search time 44.7398 Seconds  
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Perfect score: 217  
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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:  
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6: /cgn2\_6/ptodata/1/ina/backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	33.2	15.3	5855	1	US-08-592-214A-20
C 2	33.2	15.3	5855	3	US-09-149-976-20
C 3	31.2	14.4	4218	4	US-09-710-279-4205
C 4	31	14.3	516	4	US-09-270-767-8311
C 5	31	14.3	516	4	US-09-270-767-23593
C 6	31	14.3	1230025	4	US-09-198-452A-1
C 7	30.2	13.9	1001	4	US-09-671-317-1
C 8	30.2	13.9	1001	4	US-09-671-317-436
C 9	30.2	13.9	1113	4	US-10-081-644-1
C 10	30.2	13.9	49312	4	US-09-671-317-485
C 11	30	13.8	642	4	US-09-248-796A-6190
C 12	30	13.8	17056	3	US-09-245-041-3
C 13	30	13.8	17056	4	US-09-358-055B-3
C 14	30	13.8	17056	4	US-09-893-238-3
C 15	30	13.8	1830121	4	US-09-557-884-1
C 16	30	13.8	1830121	4	US-09-643-990A-1
C 17	30	13.8	1830121	4	US-10-329-960-1
C 18	29.6	13.6	10754	2	US-08-966-958-1
C 19	29.6	13.6	10754	2	US-09-215-817-1
C 20	29.6	13.6	10754	3	US-09-342-353-1
C 21	29.2	13.5	207	4	US-09-248-796A-11940
C 22	29.2	13.5	734	4	US-09-270-767-15119
C 23	29.2	13.5	1380	4	US-09-248-796A-3967
C 24	29.2	13.5	2634	2	US-08-907-166-7
C 25	29.2	13.5	2634	4	US-09-391-340-7
C 26	29.2	13.5	6583	4	US-10-204-708-26
C 27	29	13.4	31096	4	US-08-956-171E-59

28	29	13.4	31096	4	US-08-781-986A-59	Sequence 59, Appl
C 29	28.8	13.3	906	4	US-09-248-796A-4754	Sequence 4754, Ap
C 30	28.8	13.3	1208	3	US-09-461-474-11	Sequence 11, Appl
C 31	28.8	13.3	1752	4	US-09-614-221A-279	Sequence 279, App
C 32	28.8	13.3	2175	4	US-09-107-532A-3382	Sequence 3382, Ap
C 33	28.6	13.2	252	4	US-09-513-999C-19896	Sequence 19896, A
C 34	28.6	13.2	601	3	US-09-328-111-142	Sequence 142, App
C 35	28.6	13.2	19324	2	US-08-487-826B-13	Sequence 13, Appl
C 36	28.4	13.1	668	4	US-09-270-767-12084	Sequence 12084, A
C 37	28.4	13.1	1020	4	US-09-107-532A-3293	Sequence 3293, Ap
C 38	28.4	13.1	4358	4	US-08-956-171E-454	Sequence 454, App
C 39	28.4	13.1	4358	4	US-08-781-986A-454	Sequence 454, App
C 40	28.2	13.0	164	4	US-09-513-999C-23909	Sequence 23909, A
C 41	28.2	13.0	624	4	US-09-248-796A-3016	Sequence 3016, Ap
C 42	28.2	13.0	1296	4	US-09-107-532A-3402	Sequence 3402, Ap
C 43	28.2	13.0	1296	4	US-09-134-000C-3111	Sequence 3111, Ap
C 44	28.2	13.0	1932	4	US-09-248-796A-11338	Sequence 11338, A
C 45	28.2	13.0	98844	4	US-09-791-211-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1  
US-08-592-214A-20/c  
; Sequence 20, Application US/08592214A  
; Patent No. 5811536  
; GENERAL INFORMATION:  
; APPLICANT: Yanofsky, Martin F.  
; TITLE OF INVENTION: Cauliflower Floral Meristem Identify  
; TITLE OF INVENTION: Genes and Methods of Using Same  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Campbell and Flores  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: United States  
; ZIP: 92122  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/592,214A  
; FILING DATE: 26-JAN-1996  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Campbell, Cathryn A.  
; REGISTRATION NUMBER: 31,815  
; REFERENCE/DOCKET NUMBER: P-UD 1927  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 20:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5855 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 1..5855  
; OTHER INFORMATION: /note="sequence = Arabidopsis  
; OTHER INFORMATION: thaliana CAL gene"  
US-08-592-214A-20

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Best Local Similarity 48.2%; Pred. No. 0.99; Indels 0; Gaps 0;  
Matches 92; Conservative 0; Mismatches 99; Indels 0; Gaps 0;

QY 16 GGAGGAAATCAGCGCGCGGATCGAAGTCTTCTCAATTGGCAACTGTCTATATCAT 75  
Db 1294 GAAGTACATATAGATGTTCTTGGTAGAGTTGAACCTTCAATTGACAACGTGTATTTTGT 1235  
QY 76 TCCGCAATCACATTTCCGATGTTCTCGAAAGGCATTCCAAAGTTATTGGAGTCATGTGA 135  
Db 1234 TGAGTCAATAGATTTCCAGCTTGGATATAAGATACAGCAGAGAAATTAATTTTGAAGT 1175  
QY 136 AAGAGTTCCGTCATGAAGTTTACCCAAAGGCATTTCTATAGTGAATTAATTTGTCAAACTAG 195  
Db 1174 TTGGGTTAATNAAGGAAATATCCAAATACCAATTAAGTTTCTTTTGTACTAC 1115  
QY 196 TAGTCAGATCA 206  
Db 1114 TAAGCAATTA 1104

RESULT 2  
US-09-149-976-20/c  
; Sequence 20, Application US/09149976  
; Patent No. 6127123  
; GENERAL INFORMATION:  
; APPLICANT: Yanofsky, Martin F.  
; TITLE OF INVENTION: Cauliflower Floral Meristem Identity  
; TITLE OF INVENTION: Genes and Methods of Using Same  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Campbell & Flores LLP  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: United States  
; ZIP: 92122  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/149,976  
; FILING DATE: 09-SEP-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/592,214  
; FILING DATE: 26-JAN-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Campbell, Cathryn A.  
; REGISTRATION NUMBER: 31,815  
; REFERENCE/DOCKET NUMBER: P-UD 3291  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 20:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5855 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 1..5855  
; OTHER INFORMATION: /note="sequence = Arabidopsis  
; OTHER INFORMATION: thaliana CAL gene"  
US-09-149-976-20

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Best Local Similarity 48.2%; Pred. No. 0.99;  
Matches 92; Conservative 0; Mismatches 99; Indels 0; Gaps 0;  
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QY 76 TCCGCAATCACATTTCCGATGTTCTCGAAAGGCATTCCAAAGTTATTGGAGTCATGTGA 135  
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QY 136 AAGAGTTCCGTCATGAAGTTTACCCAAAGGCATTTCTATAGTGAATTAATTTGTCAAACTAG 195  
Db 1174 TTGGGTTAATNAAGGAAATATCCAAATACCAATTAAGTTTCTTTTGTACTAC 1115  
QY 196 TAGTCAGATCA 206  
Db 1114 TAAGCAATTA 1104

RESULT 3  
US-09-710-279-4205/c  
; Sequence 4205, Application US/09710279  
; Patent No. 6703492  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: PU3480US  
; CURRENT APPLICATION NUMBER: US/09/710,279  
; CURRENT FILING DATE: 2000-11-09  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4205  
; LENGTH: 4218  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
; OTHER INFORMATION: nucleic acid sequence  
US-09-710-279-4205

Query Match 14.4%; Score 31.2; DB 4; Length 4218;  
Best Local Similarity 50.0%; Pred. No. 3.7;  
Matches 78; Conservative 0; Mismatches 78; Indels 0; Gaps 0;  
QY 37 TCGAACAGTCTTCTCTCAATTGGCAACTGTCTATATCATTCGCAATCACATTCGGATG 96  
Db 3607 TCCAAATTGAATTGGCGCAATAGCTGGCGTTGATATACGACTGACGCGCCCTTAAAGA 3548  
QY 97 TTCTCGAAAGGCATTCCAAAGTTATTGGAGTCATGTGAAAGAGTTTCGTCATCAAGTTTA 156  
Db 3547 GCAATTAATCTATATTTCAAATTTAGTAGAATTAAGTAGAATTAACATATCAATATA 3488  
QY 157 CCCAAAGGCATTTCTATAGTGAATTAATTTGTCAAAAC 192  
Db 3487 AGAAATTCATAAAAGTTAAAGAAAAATATCAAAAC 3452

RESULT 4  
US-09-270-767-8311  
; Sequence 8311, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 8311  
; LENGTH: 516  
; TYPE: DNA  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-8311

Query Match 14.3%; Score 31; DB 4; Length 516;



	Best Local Similarity	51.0%; Pred. No. 1.9;	Mismatches	73; Conservative	0; Indels	70; Gaps	0;
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Qy	127	GTCATGTGAAGAGTGTCGTATGAAGTTTACCCEAAAGGCATTTCCATAGTCGAATTAATG	186				
Dd	122	AACATGTGAGACACATTTTGGGGGAACATTAGCAAGAACITTCGAANTTGNATTTTAAC	181				
Qy	187	TCAACTAGTAGTCAGATCAATA	209				
Dd	182	CACAATAATTTGCCCGCACAATA	204				

## RESULT 5

US-09-270-767-23593  
 ; Sequence 23593, Application US/09270767  
 ; Patent No. 6703491  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Homburger et al.  
 ; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*  
 ; FILE REFERENCE: File Reference: 7326-094  
 ; CURRENT APPLICATION NUMBER: US/09/270,767  
 ; CURRENT FILING DATE: 1999-03-17  
 ; NUMBER OF SEQ ID NOS: 62517  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 23593  
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 ; TYPE: DNA  
 ; ORGANISM: *Drosophila melanogaster*  
 US-09-270-767-23593

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Qy	127	GTCATGTGCAAGAGTTCGTTCATGAAGTTTACCCAAAGGCGATTTTCATAGTGAATTAATAATTG	186		
Db	122	AACATGTGAGACACATTTTGGGGAAACATTAGCAAGAACCTTTCGAATTTGAATTTTAAAC	181		
Qy	187	TCAAACTAGTAGTCAGATCAATA	209		
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## RESULT 6

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US-09-198-452A-1
; Sequence 1, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1
; LENGTH: 1230025
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(15000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature

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OTHER INFORMATION: n=a or c or g or t  
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NAME/KEY: misc feature  
LOCATION: (555001)..(570000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (570001)..(585000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (585001)..(600000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (600001)..(615000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (615001)..(630000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (630001)..(645000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (645001)..(660000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (660001)..(675000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (675001)..(690000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (690001)..(705000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (705001)..(720000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (720001)..(735000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (735001)..(750000)  
OTHER INFORMATION: n=a or c or g or t

NAME/KEY: misc feature  
LOCATION: (750001)..(765000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (765001)..(780000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (780001)..(795000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (795001)..(810000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (810001)..(825000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (825001)..(840000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (840001)..(855000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (855001)..(870000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (870001)..(885000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (885001)..(900000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature  
LOCATION: (900001)..(915000)  
OTHER INFORMATION: n=a or c or g or t  
NAME/KEY: misc feature

Query Match 14.3%; Score 31; DB 4; Length 1230025;

Best Local Similarity 50.3%; Pred. No. 36; Mismatches 75; Indels 0; Gaps 0;  
Matches 76; Conservative 0;

QY 33 CGGATCGAACAGTCTCTCTCAATTGGCAACTGTCTATATCATTCGCAATCACATTCG 92  
Db 586976 CAGATAGCGTCTCTCTCTCAAAATCGCAATTTCTATCTCTCCCATCCCTATTAG 587035  
QY 93 GATGTTCTCGAAAAGGCATTCCAAAGTATTGGAGTCATGTGAAGAGTTCGTGATGAAG 152  
Db 587036 AGATTGCAGTAAAGCTGTATAGAACCTTTGAGAACCTTCTGAAATTCG 587095  
QY 153 TTATCCCAAGGCATTTTCATAGTAATAA 183  
Db 587096 TTGTCCTAAATGCTGAAGACAGTATCGTAAA 587126

RESULT 7

US-09-671-317-1/c  
; Sequence 1, Application US/09671317  
; Patent No. 6528260  
; GENERAL INFORMATION:  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; APPLICANT: Bougueleret, Lydie  
; APPLICANT: Cohen, Annick  
; TITLE OF INVENTION: BIALLELIC MARKERS RELATED TO GENES INVOLVED IN DRUG METABOLISM  
; FILE REFERENCE: 62.US3.CIP  
; CURRENT APPLICATION NUMBER: US/09/671,317  
; CURRENT FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: US 09/536,178  
; PRIOR FILING DATE: 2000-03-23  
; PRIOR APPLICATION NUMBER: PCT/IB00/00403  
; PRIOR FILING DATE: 2000-03-24  
; PRIOR APPLICATION NUMBER: US 60/126,269  
; PRIOR FILING DATE: 1999-03-25  
; PRIOR APPLICATION NUMBER: US 60/131,961  
; PRIOR FILING DATE: 1999-04-30

; NUMBER OF SEQ ID NOS: 977  
; SOFTWARE: Patent.pm  
; SEQ ID NO 1  
; LENGTH: 1001  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: allele  
; LOCATION: 501  
; OTHER INFORMATION: 12-421-140 : polymorphic base A or G  
; NAME/KEY: misc binding  
; LOCATION: 481..500  
; OTHER INFORMATION: 12-421-140.mis1, potential  
; NAME/KEY: misc binding  
; LOCATION: 502..521  
; OTHER INFORMATION: 12-421-140.mis2, potential complement  
; NAME/KEY: primer bind  
; LOCATION: 362..380  
; OTHER INFORMATION: upstream amplification primer  
; NAME/KEY: primer bind  
; LOCATION: 792..812  
; OTHER INFORMATION: downstream amplification primer, complement  
; NAME/KEY: misc binding  
; LOCATION: 489..513  
; OTHER INFORMATION: 12-421-140 potential probe  
; OTHER INFORMATION: 12-421-140 potential probe  
US-09-671-317-1

Query Match 13.9%; Score 30.2; DB 4; Length 1001;  
Best Local Similarity 58.2%; Pred. No. 4.5;  
Matches 53; Conservative 0; Mismatches 38; Indels 0; Gaps 0;  
QY 111 TTCAAAGTTATTGGAGTCATGTGAAGAGTTCTGTCATGAAGTTTACCCAAAGGCATTTC 170  
DB 91 TTCAACCTTATTAAAAATTATCTGAGAAAGTAGAACAGGATGCTTCTCCAACTCATTG 32  
QY 171 ATAGTGAATTAAATGTCAACTAGTAGTCA 201  
DB 31 ACATAGGTTTCATCTGTATCAAAATGAGACA 1

## RESULT 8

US-09-671-317-436/c  
; Sequence 436, Application US/09671317  
; Patent No. 6528260  
; GENERAL INFORMATION:  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; APPLICANT: Bougueleret, Lydie  
; APPLICANT: Cohen, Annick  
; TITLE OF INVENTION: BIALLELIC MARKERS RELATED TO GENES INVOLVED IN DRUG METABOLISM  
; FILE REFERENCE: 62.US3.CIP  
; CURRENT APPLICATION NUMBER: US/09/671.317  
; CURRENT FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: US 09/536,178  
; PRIOR FILING DATE: 2000-03-23  
; PRIOR APPLICATION NUMBER: PCT/IB00/00403  
; PRIOR FILING DATE: 2000-03-24  
; PRIOR APPLICATION NUMBER: US 60/126,269  
; PRIOR FILING DATE: 1999-03-25  
; PRIOR APPLICATION NUMBER: US 60/131,961  
; PRIOR FILING DATE: 1999-04-30  
; NUMBER OF SEQ ID NOS: 977  
; SOFTWARE: Patent.pm  
; SEQ ID NO 436  
; LENGTH: 1001  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: allele  
; LOCATION: 501  
; OTHER INFORMATION: 12-421-135 : insertion T  
; NAME/KEY: misc binding  
; LOCATION: 481..500

; OTHER INFORMATION: 12-421-135.mis1, potential  
; NAME/KEY: primer\_bind  
; LOCATION: 367..385  
; OTHER INFORMATION: upstream amplification primer  
; NAME/KEY: primer bind  
; LOCATION: 797..817  
; OTHER INFORMATION: downstream amplification primer, complement  
US-09-671-317-436

Query Match 13.9%; Score 30.2; DB 4; Length 1001;  
Best Local Similarity 58.2%; Pred. No. 4.5;  
Matches 53; Conservative 0; Mismatches 38; Indels 0; Gaps 0;  
QY 111 TTCAAAGTTATTGGAGTCATGTGAAGAGTTCTGTCATGAAGTTTACCCAAAGGCATTTC 170  
DB 96 TTCAACCTTATTAAAAATTATCTGAGAAAGTAGAACAGGATGCTTCTCCAACTCATTG 37  
QY 171 ATAGTGAATTAAATGTCAACTAGTAGTCA 201  
DB 36 ACATAGGTTTCATCTGTATCAAAATGAGACA 6

## RESULT 9

US-10-081-644-1/c  
; Sequence 1, Application US/10081644  
; Patent No. 6780976  
; GENERAL INFORMATION:  
; APPLICANT: Yamamoto, Hiroaki  
; TITLE OF INVENTION: NOVEL ENONE REDUCTASES, METHODS FOR  
; TITLE OF INVENTION: PRODUCING SAME, AND METHODS FOR SELECTIVELY REDUCING A  
; TITLE OF INVENTION: CARBON-CARBON DOUBLE BOND OF AN ALPHA,BETA-UNSATURATED KETONE  
; TITLE OF INVENTION: USING THE REDUCTASES  
; FILE REFERENCE: 06501-100001  
; CURRENT APPLICATION NUMBER: US/10/081,644  
; CURRENT FILING DATE: 2002-02-21  
; PRIOR APPLICATION NUMBER: JP 2001-49363  
; PRIOR FILING DATE: 2001-02-23  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1113  
; TYPE: DNA  
; ORGANISM: Kluyveromyces lactis  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1) ... (1110)  
US-10-081-644-1

Query Match 13.9%; Score 30.2; DB 4; Length 1113;  
Best Local Similarity 55.1%; Pred. No. 4.7;  
Matches 59; Conservative 0; Mismatches 48; Indels 0; Gaps 0;  
QY 68 TATATCATTCGCAATCACATTCGGATGTTCTCGAAAGGCATTCCAAAGTTATTGGAG 127  
DB 868 TATCAATTTTAAACATATTATCTTTCTGATTTCTTCAGGAATGCTTCAATGCTCATTGAA 809  
QY 128 TCATGTGAAGAGTTCGTCAATGAAGTTTACCCAAAGGCATTTCATAG 174  
DB 808 CCACTTCTAATATGTGGCAGGTAGACTATCTCTGTGACTTTATAG 762

## RESULT 10

US-09-671-317-485/c  
; Sequence 485, Application US/09671317  
; Patent No. 6528260  
; GENERAL INFORMATION:  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; APPLICANT: Bougueleret, Lydie  
; APPLICANT: Cohen, Annick  
; TITLE OF INVENTION: BIALLELIC MARKERS RELATED TO GENES INVOLVED IN DRUG METABOLISM  
; FILE REFERENCE: 62.US3.CIP



```

; NAME/KEY: primer_bind
; LOCATION: 45215..45233
; OTHER INFORMATION: 10-289-201.mis complement
; NAME/KEY: primer_bind
; LOCATION: 45722..45740
; OTHER INFORMATION: 10-290-37.mis
; NAME/KEY: primer_bind
; LOCATION: 45742..45760
; OTHER INFORMATION: 10-290-37.mis complement
; NAME/KEY: primer_bind
; LOCATION: 46010..46028
; OTHER INFORMATION: 10-290-326.mis
; NAME/KEY: primer_bind
; LOCATION: 46030..46048
; OTHER INFORMATION: 10-290-326.mis complement
; NAME/KEY: misc_binding
; LOCATION: 7552..7576
; OTHER INFORMATION: 10-286-289.probe
; NAME/KEY: misc_binding
; LOCATION: 7607..7631
; OTHER INFORMATION: 10-286-345.probe
; NAME/KEY: misc_binding
; LOCATION: 7637..7661
; OTHER INFORMATION: 10-286-375.probe
; NAME/KEY: misc_binding
; LOCATION: 17246..17270
; OTHER INFORMATION: 12-425-57.probe
; NAME/KEY: misc_binding
; LOCATION: 21583..21607
; OTHER INFORMATION: 12-421-140.probe
; NAME/KEY: misc_binding
; LOCATION: 36959..36983
; OTHER INFORMATION: 10-523-232.probe
; NAME/KEY: misc_binding
; LOCATION: 45202..45226
; OTHER INFORMATION: 10-289-201.probe
; NAME/KEY: misc_binding
; LOCATION: 45729..45753
; OTHER INFORMATION: 10-290-37.probe
; NAME/KEY: misc_binding
; LOCATION: 46017..46041
; OTHER INFORMATION: 10-290-326.probe
; US-09-671-317-485

Query Match      13.8%; Score 30.2; DB 4; Length 49312;
Best Local Similarity 58.2%; Pred. No. 20;
Matches 53; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 111 TTCAAAGTTATTGGAGTCATGTGAAGAGTTGCTGATGAAGTTTACCCAAAGGCATTTTC 170
Db 21185 TTCCAACTTATTAAATTTATCTGAGAAAGTAGAACAGGATGCTTCTCCCAACTCATTTG 21126

QY 171 ATAGTGAATTAATTTGTCAAACTAGTAGTCA 201
Db 21125 AACTAGGTTCTCTGTATCAAAATGAGACA 21095

RESULT 11
US-09-248-796A-6190/c
; Sequence 6190, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248, 796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR FILING DATE: 1999-02-12
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096, 409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208

; NAME/KEY: primer_bind
; LOCATION: 45215..45233
; OTHER INFORMATION: 10-289-201.mis complement
; NAME/KEY: primer_bind
; LOCATION: 45722..45740
; OTHER INFORMATION: 10-290-37.mis
; NAME/KEY: primer_bind
; LOCATION: 45742..45760
; OTHER INFORMATION: 10-290-37.mis complement
; NAME/KEY: primer_bind
; LOCATION: 46010..46028
; OTHER INFORMATION: 10-290-326.mis
; NAME/KEY: primer_bind
; LOCATION: 46030..46048
; OTHER INFORMATION: 10-290-326.mis complement
; NAME/KEY: misc_binding
; LOCATION: 7552..7576
; OTHER INFORMATION: 10-286-289.probe
; NAME/KEY: misc_binding
; LOCATION: 7607..7631
; OTHER INFORMATION: 10-286-345.probe
; NAME/KEY: misc_binding
; LOCATION: 7637..7661
; OTHER INFORMATION: 10-286-375.probe
; NAME/KEY: misc_binding
; LOCATION: 17246..17270
; OTHER INFORMATION: 12-425-57.probe
; NAME/KEY: misc_binding
; LOCATION: 21583..21607
; OTHER INFORMATION: 12-421-140.probe
; NAME/KEY: misc_binding
; LOCATION: 36959..36983
; OTHER INFORMATION: 10-523-232.probe
; NAME/KEY: misc_binding
; LOCATION: 45202..45226
; OTHER INFORMATION: 10-289-201.probe
; NAME/KEY: misc_binding
; LOCATION: 45729..45753
; OTHER INFORMATION: 10-290-37.probe
; NAME/KEY: misc_binding
; LOCATION: 46017..46041
; OTHER INFORMATION: 10-290-326.probe
; US-09-671-317-485

; SEQ ID NO 6190
; LENGTH: 642
; TYPE: DNA
; ORGANISM: Candida albicans
; US-09-248-796A-6190

Query Match      13.8%; Score 30; DB 4; Length 642;
Best Local Similarity 52.4%; Pred. No. 4.4;
Matches 66; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

QY 56 TTGGCAACTGTCTATATCATTCGCGCAATCACATTTCCGATGTTCTCGAAAAGGCATTTCCA 115
Db 425 TTAGAACTGTCTGTTTACTTTCATCATCACACTTGTCTACTATAAATAATCTGTGCA 366

QY 116 AACTTATTGAGTCATGTGAAAGAGTTCGTCATGAAGTTTACCCAAAGGCATTTTCATAGT 175
Db 365 TCCTCATTTGGCGTGTGAGTAAGTCTTTGAAACCAATTTTCAACATTTTCAAAATGATCTT 306

QY 176 GAATTA 181
Db 305 GAATCA 300

RESULT 12
US-09-245-041-3/c
; Sequence 3, Application US/09245041
; Patent No. 6274339
; GENERAL INFORMATION:
; APPLICANT: Moore, K.
; APPLICANT: Nagle, D.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND TREATMENT
; FILE REFERENCE: 7853-136
; CURRENT APPLICATION NUMBER: US/09/245,041
; CURRENT FILING DATE: 1999-02-05
; EARLIER APPLICATION NUMBER: 60/093,630
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: 60/104,978
; EARLIER FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 17056
; TYPE: DNA
; ORGANISM: Mus musculus
; US-09-245-041-3

Query Match      13.8%; Score 30; DB 3; Length 17056;
Best Local Similarity 57.4%; Pred. No. 15;
Matches 54; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 1 TTTTNTTTTTTTTTTTGGAGAAATCACGGCGGGATCGAACAGTCTTCTCTCAATTGGC 60
Db 10097 TTATTTATTTTATTATAGAACTCAATAGTATGAGACATTTGTTAGACCTTAATTGAA 10038

QY 61 AACTGTCTATATCATTCGCGCAATCACATTTCCGA 94
Db 10037 AACTGTTCAAGTCAGTTCTCTTTTACATTTGGA 10004

RESULT 13
US-09-358-055B-3/c
; Sequence 3, Application US/09358055B
; Patent No. 6713277
; GENERAL INFORMATION:
; APPLICANT: Moore, K.
; APPLICANT: Nagle, D.L.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND
; TITLE OF INVENTION: TREATMENT OF BODY WEIGHT DISORDERS INCLUDING
; TITLE OF INVENTION: OBESITY
; FILE REFERENCE: 7853-151
; CURRENT APPLICATION NUMBER: US/09/358,055B
; CURRENT FILING DATE: 1999-07-21
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; PRIOR APPLICATION NUMBER: 09/245,041  
; PRIOR FILING DATE: 1999-02-05  
; NUMBER OF SEQ ID NOS: 153  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 3  
; LENGTH: 17056  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-358-055B-3

Query Match 13.8%; Score 30; DB 4; Length 17056;  
Best Local Similarity 57.4%; Pred. No. 15;  
Matches 54; Conservative 0; Mismatches 40; Indels 0; Gaps 0;  
QY 1 TTTTNTTTTTTTGGAGAAATCAGCGGGGGATCGAACAGTCTTCTCTCAATTGGC 60  
DB 10097 TTATTTATTTATTTAAGAACTCAATAGTATGACATTTGTTAGCACCTAATTGAA 10038  
QY 61 AACTGCTATATCATTCGCGCAATCACATTTCCGA 94  
DB 10037 AACTGTTCCAGTCAGTCTCTTTTACATTGTGGA 10004

RESULT 14  
US-09-893-238-3/c  
; Sequence 3, Application US/09893238  
; Patent No. 6727348  
; GENERAL INFORMATION:  
; APPLICANT: Moore, K.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY  
; FILE REFERENCE: 7853-237  
; CURRENT APPLICATION NUMBER: US/09/893,238  
; CURRENT FILING DATE: 2001-06-27  
; PRIOR APPLICATION NUMBER: 09/245,041  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/093,630  
; PRIOR FILING DATE: 1998-07-21  
; PRIOR APPLICATION NUMBER: 60/104,978  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 129  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 3  
; LENGTH: 17056  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-893-238-3

Query Match 13.8%; Score 30; DB 4; Length 17056;  
Best Local Similarity 57.4%; Pred. No. 15;  
Matches 54; Conservative 0; Mismatches 40; Indels 0; Gaps 0;  
QY 1 TTTTNTTTTTTTGGAGAAATCAGCGGGGGATCGAACAGTCTTCTCTCAATTGGC 60  
DB 10097 TTATTTATTTATTTAAGAACTCAATAGTATGACATTTGTTAGCACCTAATTGAA 10038  
QY 61 AACTGCTATATCATTCGCGCAATCACATTTCCGA 94  
DB 10037 AACTGTTCCAGTCAGTCTCTTTTACATTGTGGA 10004

RESULT 15  
US-09-557-884-1/c  
; Sequence 1, Application US/09557884  
; Patent No. 6506581  
; GENERAL INFORMATION:  
; APPLICANT: Fleischmann et al.  
; TITLE OF INVENTION: The Nucleotide sequence of  
; the Haemophilus influenzae Rd Genome, Fragments  
; thereof, and Uses Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: MD  
; COUNTRY: USA  
; ZIP: 20850

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3 1/2 inch diskette  
; COMPUTER: Dell Pentium  
; OPERATING SYSTEM: MS DOS v6.22  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA: US/09/557,884  
; FILING DATE: 25-Apr-2000  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/476,102  
; FILING DATE: JUN-5-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Michelle S. Marks  
; REGISTRATION NUMBER: 41,971  
; REFERENCE/DOCKET NUMBER: PB186P3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 301-309-8504  
; TELEFAX: 301-309-8439  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1830121 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-557-884-1

Query Match 13.8%; Score 30; DB 4; Length 1830121;  
Best Local Similarity 52.4%; Pred. No. 80;  
Matches 66; Conservative 0; Mismatches 60; Indels 0; Gaps 0;  
QY 85 ACATTTCCGGATGTTCTCGAAAAGGCATTCCAAAGTTTATTTGGAGTCATGTGAAGATTCG 144  
DB 636437 ACAGCTTGGATATCGCAAGCAGCGCAATCAATAATCGAAGATTAGATTGATAGGCTTC 636378  
QY 145 TCATGAAGTTTACCCAAAGCATTTTCATAGTGAATTAATTTGCAAACTAGTAGTCAGAT 204  
DB 636377 TCAATAATTTTCACGGAGAGAAATAGCTGGCATAATAGGATTGGCTAATTTGTTAGCCAAT 636318  
QY 205 CAATAA 210  
DB 636317 AATAA 636312

Search completed: January 22, 2005, 02:14:56  
Job time : 54.7398 secs

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OM nucleic - nucleic search, using sw model

Run on: January 21, 2005, 17:02:48 ; Search time 254.562 Seconds  
(without alignments)  
4898.046 Million cell updates/sec

Title: US-09-437-450A-50

Perfect score: 217

Sequence: 1 ttttttttttttggagg.....gtcagatcaataaaatttc 217

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4300275 seqs, 2872944193 residues

Total number of hits satisfying chosen parameters: 8600550

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_NA:\*

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- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*
- 6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq:\*
- 7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:\*
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- 10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq:\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq:\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq:\*
- 18: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 19: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 20: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 21: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C #1	40	18.4	2950	16	US-10-220-120-21
2	37	17.1	2159	16	US-10-425-114-7290
3	35.4	16.3	403035	17	US-10-741-601-5729
4	34.6	15.9	441	10	US-09-918-995-9159
5	34.2	15.8	1169	13	US-10-027-632-124305
6	34.2	15.8	1169	13	US-10-027-632-124306
7	34.2	15.8	1169	13	US-10-027-632-124305
8	34.2	15.8	1169	15	US-10-027-632-124306
9	34.2	15.8	3095	18	US-10-602-494-312
10	34	15.7	728	15	US-10-012-697-734
11	33.2	15.3	609	16	US-10-282-122A-18075
12	32.6	15.0	530	15	US-10-029-386-4708

C 13	32.4	14.9	1057	15	US-10-195-730-25	Sequence 25, Appl
C 14	32.4	14.9	1057	17	US-10-799-747-25	Sequence 25, Appl
C 15	32.4	14.9	3899	10	US-09-814-353-20529	Sequence 20529, A
16	32.2	14.8	17388	9	US-09-815-242-8512	Sequence 8512, Ap
17	32	14.7	811	13	US-10-027-632-155696	Sequence 155696,
18	32	14.7	811	13	US-10-027-632-155697	Sequence 155697,
19	32	14.7	811	15	US-10-027-632-155696	Sequence 155696,
20	32	14.7	811	15	US-10-027-632-155697	Sequence 155697,
21	32	14.7	871	15	US-10-012-697-1277	Sequence 1277, Ap
22	32	14.7	1458	16	US-10-424-599-59066	Sequence 59066, A
23	32	14.7	3771	16	US-10-282-122A-12168	Sequence 12168, A
C 24	31.8	14.7	2000	9	US-09-938-842A-4722	Sequence 4722, Ap
C 25	31.8	14.7	2000	11	US-09-938-842A-4722	Sequence 4722, Ap
26	31.8	14.7	2251	16	US-10-425-114-15082	Sequence 15082, A
27	31.8	14.7	2341	16	US-10-424-599-104234	Sequence 104234,
28	31.8	14.7	118951	14	US-10-161-572-11	Sequence 11, Appl
29	31.6	14.6	735	15	US-10-012-697-795	Sequence 795, App
30	31.6	14.6	736	15	US-10-012-697-673	Sequence 673, App
31	31.6	14.6	2000	9	US-09-938-842A-3182	Sequence 3182, Ap
32	31.6	14.6	2000	11	US-09-938-842A-3182	Sequence 3182, Ap
33	31.6	14.6	2004	9	US-09-887-576-200	Sequence 200, App
C 34	31.6	14.6	5875	15	US-10-311-455-261	Sequence 261, App
C 35	31.6	14.6	42123	13	US-10-087-192-1588	Sequence 1588, Ap
C 36	31.6	14.6	233528	18	US-10-719-993-6856	Sequence 6856, Ap
37	31.4	14.5	378	16	US-10-424-599-131794	Sequence 131794,
C 38	31.4	14.5	186510	15	US-10-043-715-1	Sequence 1, Appl
C 39	31.4	14.5	357652	17	US-10-322-696-34	Sequence 34, Appl
C 40	31.2	14.4	2327	15	US-10-101-510-410	Sequence 410, Appl
C 41	31	14.3	2000	9	US-09-887-576-85	Sequence 85, Appl
C 42	31	14.3	2004	9	US-09-887-576-218	Sequence 218, App
C 43	31	14.3	3095	18	US-10-602-494-1170	Sequence 170, App
C 44	31	14.3	15782	15	US-10-240-453-10	Sequence 10, Appl
45	31	14.3	127197	10	US-09-754-853A-1	Sequence 1, Appl

#### ALIGNMENTS

RESULT 1  
US-10-220-120-21/c  
; Sequence 21, Application US/10220120  
; Publication No. US20040048253A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.  
; APPLICANT: PANZER, Scott R.  
; APPLICANT: SPIRO, Peter A.  
; APPLICANT: BANVILLE, Steven C.  
; APPLICANT: SHAH, Purvi  
; APPLICANT: CHALUP, Michael S.  
; APPLICANT: CHANG, Simon C.  
; APPLICANT: CHEN, Alice  
; APPLICANT: D'SA, Steven A.  
; APPLICANT: AMSHEY, Stefan  
; APPLICANT: DAHL, Christopher R.  
; APPLICANT: DANIELS, Susan E.  
; APPLICANT: DUFOUR, Gerard E.  
; APPLICANT: FLORES, Vincent  
; APPLICANT: FONG, Willy T.  
; APPLICANT: GREENAWALT, Lila B.  
; APPLICANT: HILLMAN, Jennifer L.  
; APPLICANT: JONES, Anissa L.  
; APPLICANT: LIU, Tommy F.  
; APPLICANT: ROSEBERRY, Ann M.  
; APPLICANT: ROSEN, Bruce H.  
; APPLICANT: RUSSO, Frank D.  
; APPLICANT: STOCKDREHER, Theresa K.  
; APPLICANT: DAFFO, Abel  
; APPLICANT: WRIGHT, Rachel J.  
; APPLICANT: YAP, Pierre E.  
; APPLICANT: YU, Jimmy Y.  
; APPLICANT: BRADLEY, Diana L.  
; APPLICANT: BRATCHER, Shawn R.

APPLICANT: CHEN, Wensheng  
APPLICANT: COHEN, Howard J.  
APPLICANT: HODGSON, David M.  
APPLICANT: LINCOLN, Stephen E.  
APPLICANT: JACKSON, Stuart  
TITLE OF INVENTION: MOLECULES FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: PT-1113 PCT  
CURRENT APPLICATION NUMBER: US/10/220,120  
CURRENT FILING DATE: 2002-08-26  
PRIOR FILING DATE: 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;  
60/184,693; 60/184,771; 60/184,813; 60/184,773; 60/184,776;  
60/184,769; 60/184,768; 60/184,837; 60/184,697; 60/184,841;  
60/184,772; 60/185,213; 60/185,216; 60/204,863; 60/205,221;  
60/204,815; 60/203,785; 60/204,821; 60/204,908; 60/204,226;  
60/204,325; 60/205,285; 60/205,232; 60/205,323; 60/205,287;  
60/205,324; 60/205,286  
PRIOR FILING DATE: 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;  
2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;  
2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;  
2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-05-17;  
2000-05-17; 2000-05-12; 2000-05-16; 2000-05-16; 2000-05-15;  
2000-05-16; 2000-05-17; 2000-05-16; 2000-05-17; 2000-05-17;  
2000-05-17; 2000-05-17  
NUMBER OF SEQ ID NOS: 422  
SOFTWARE: PERL Program  
SEQ ID NO 21  
LENGTH: 2950  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No. US20040048253A1 LI:034212.1:2000FEB01  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 52, 132  
OTHER INFORMATION: a, t, c, g, or other  
US-10-220-120-21

Query Match 18.4%; Score 40; DB 16; Length 2950;  
Best Local Similarity 58.3%; Pred. No. 0.24; Indels 0; Gaps 0;  
Matches 70; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 64 TGCTATATCATTCGCAATCACATTTCCGGATGTTCTCGAAAGGCAATCCAAAGTTATT 123  
Db 350 TTTCATGATCCATCCGGAATCGTTCTTAATAAGTTCTGGGAATGACTAAATCCGTTAAT 291

QY 124 GGAGTCATGTGAAGAGTTTCGTATGAAGTTTACCCAAAGGCATTTTCATATGATTAAT 183  
Db 290 GAAGTCAGGCCACTGATTTCTTCAGGAAGTCTTTCCAACTGTTTTCAGAGACATCTTAA 231

RESULT 2  
US-10-425-114-7290  
; Sequence 7290, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E.  
; APPLICANT: Tabaska, Jack E.  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(531313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 7290  
; LENGTH: 2159  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:

OTHER INFORMATION: Clone ID: 700646607\_FLI  
US-10-425-114-7290

Query Match 17.1%; Score 37; DB 16; Length 2159;  
Best Local Similarity 50.3%; Pred. No. 1.7; Indels 0; Gaps 0;  
Matches 91; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

QY 11 TTTTGGAGGAATCACGGCGCGGATCGAACAGCTCTTCTCAATTGGCAACTGTCTAT 70  
Db 1828 TTTAGGAACAGTTCTCTGATGGCATATGAGGGGATTATTGACTCTCTACAACTGTACAT 1887

QY 71 ATCATTCCGCATCATCATTTCCGATGTTCTCGAAAGGCATTCCAAAGTTATTGGAGTCA 130  
Db 1888 AACTACGGTTTCATCAGAAAATGGAGGTTTACACGAGAGCGTCCCATATATAAAGGAGGC 1947

QY 131 TGTGAAGAGTTTCGTCAAGTTTACCCAAAGGCATTTTCATAGTGAATTAATTTGTCAA 190  
Db 1948 TTCTAACATATACGTATAGTAGTGAAGCAAGGAATAAATAGTATATAAAAGAGAA 2007

QY 191 A 191  
Db 2008 A 2008

RESULT 3  
US-10-741-601-5729  
; Sequence 5729, Application US/10741601  
; Publication No. US20040166519A1  
; GENERAL INFORMATION:  
; APPLICANT: CARGILL, Michele et al.  
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH  
; TITLE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001500  
; CURRENT APPLICATION NUMBER: US/10/741,601  
; CURRENT FILING DATE: 2003-12-22  
; NUMBER OF SEQ ID NOS: 26415  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5729  
; LENGTH: 403035  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(403035)  
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-1;  
US-10-741-601-5729

Query Match 16.3%; Score 35.4; DB 17; Length 403035;  
Best Local Similarity 57.8%; Pred. No. 42; Indels 0; Gaps 0;  
Matches 63; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 103 AAAAGGCATTCCAAAGTTATTGGAGTCATGTGAAAGAGTTTCGTATGAAGTTTACCCAA 162  
Db 51313 AAACCTCTTCTCAATGTTATTCATGTATACATAAGAGAGCATAGCTAAATATCCATG 51372

QY 163 GGCATTTTCATAGTAATTAATTTGTCAAACTAGTAGTCAGATCAATAAA 211  
Db 51373 TGTTCCTCAAGTGAACACACTTGTGTAAACCACCACTCAGATCAAGATA 51421

RESULT 4  
US-09-918-995-9159  
; Sequence 9159, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR FILING DATE: 1999-01-20



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; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 9159
; LENGTH: 441
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(441)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-9159

Query Match          15.9%; Score 34.6; DB 10; Length 441;
Best Local Similarity 52.4%; Pred. No. 4.6;
Matches 76; Conservative 0; Mismatches 69; Indels 0; Gaps 0;

Qy 64 TGTCTATATCATTCGGCAATCACATTTTCGGATGTTCTCGAAAGGCATTTCCAAAGTTATT 123
Db 107 TATCTCTGAAATTCGTGTAATTAAGTCAGGGAATTTCTATGAAGTGTCTTGCCAAACCAATT 166
Qy 124 GGAGTCATGTGAAAGAGTTCGTGATGAAGTTTACCCAAAGGCATTTTCATAGTGAATTTAAA 183
Db 167 GGGCTATTATGATAGTTCTTAAGTGGAAACATTATGTTTCTCTCAATACACAGTGAATTGAG 226
Qy 184 TTGTCAAACTAGTAGTCAGATCAAT 208
Db 227 TTCTGACTCTCTGGGGCAGATAGAT 251

RESULT 5
US-10-027-632-124305
; Sequence 124305, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124305
; LENGTH: 1169
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-124305

Query Match          15.8%; Score 34.2; DB 13; Length 1169;
Best Local Similarity 49.7%; Pred. No. 9;
Matches 84; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

Qy 47 TTCTCTCAATTGGCAACTGCTATATCATTCGCAATCACATTTTCGGATGTTCTCGAAA 106
Db 394 TTGAGTCTCTTTASAATCATTATCAGCCATTTTTCGCCACATTTTGACTTCTATGAAATT 453
Qy 107 GGCATTCAAAGTTATTGGAGTCATGTGAAGAGHTTCGTGATGAAGTTTACCCAAAGCA 166
Db 454 GGAATCTTAGATTCAATGAAATACTTTAAACAGTTTTCTGAAAGAAATAAAAAAGAACCA 513

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PRIOR APPLICATION NUMBER: US 60/185,218  
PRIOR FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: US 60/167,363  
PRIOR FILING DATE: 1999-11-23  
PRIOR APPLICATION NUMBER: US 60/156,358  
PRIOR FILING DATE: 1999-09-28  
PRIOR APPLICATION NUMBER: US 60/146,002  
PRIOR FILING DATE: 1999-08-09  
NUMBER OF SEQ ID NOS: 325720  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 124305  
LENGTH: 1169  
TYPE: DNA  
ORGANISM: Human  
US-10-027-632-124305

Query Match 15.8%; Score 34.2; DB 15; Length 1169;  
Best Local Similarity 49.7%; Pred. No. 9;  
Matches 84; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

QY 47 TTCTCTCAATTGGCAACTGTCTATATCATTCGCAATCCACATTCGGATGTTCTCGAAA 106  
DB 394 TTGAGTCTCTASAACTATATCAGCAATTTTCCCCACATTTTGACTTCTATGAATT 453

QY 107 GGCATTCCAAAGTTATGGAGTCATGTGAAAGAGTTGTCATGAAAGTTTACCCAAAGGCA 166  
DB 454 GGAATCTTAGATTCATGAATACTTTAACAGTTTCTGAAAGATAAAAAAGAAACACCA 513

QY 167 TTTCATAGTGAATTAATTTGTCAAACTAGTAGTCAGATCAATAAATTT 215  
DB 514 CCCAATATGTACCTAAATTTTAAGATTTATATTTAAATTAATTTAAAT 562

RESULT 8  
US-10-027-632-124306  
; Sequence 124306, Application US/10027632  
; Publication No. US20030204075A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; POLYMORPHISMS IN THE HUMAN GENOME  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-09-28  
; PRIOR APPLICATION NUMBER: US 60/146,002  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 124306  
; LENGTH: 1169  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-124306

Query Match 15.8%; Score 34.2; DB 15; Length 1169;  
Best Local Similarity 49.7%; Pred. No. 9;  
Matches 84; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

QY 47 TTCTCTCAATTGGCAACTGTCTATATCATTCGCAATCCACATTCGGATGTTCTCGAAA 106  
DB 394 TTGAGTCTCTASAACTATATCAGCAATTTTCCCCACATTTTGACTTCTATGAATT 453

QY 107 GGCATTCCAAAGTTATGGAGTCATGTGAAAGAGTTGTCATGAAGTTTACCCAAAGGCA 166  
DB 454 GGAATCTTAGATTCATGAATACTTTAACAGTTTCTGAAAGATAAAAAAGAAACACCA 513

QY 167 TTTCATAGTGAATTAATTTGTCAAACTAGTAGTCAGATCAATAAATTT 215  
DB 514 CCCAATATGTACCTAAATTTTAAGATTTATATTTAAATTAATTTAAAT 562

RESULT 9  
US-10-602-494-312/c  
; Sequence 312, Application US/10602494  
; Publication No. US20040265833A1  
; GENERAL INFORMATION:  
; APPLICANT: Cathy Lofton-Day  
; APPLICANT: Andrew Sledziewski  
; APPLICANT: Jeff Thomas  
; APPLICANT: Robert W. Day  
; APPLICANT: Lori Tonnes-Priddy  
; APPLICANT: Karen Cardon  
; TITLE OF INVENTION: Methods and nucleic acids for the analysis of colorectal cell  
; FILE REFERENCE: 47675-45  
; CURRENT APPLICATION NUMBER: US/10/602,494  
; CURRENT FILING DATE: 2003-06-23  
; NUMBER OF SEQ ID NOS: 385  
; SEQ ID NO 312  
; LENGTH: 3095  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-602-494-312

Query Match 15.8%; Score 34.2; DB 18; Length 3095;  
Best Local Similarity 64.6%; Pred. No. 13;  
Matches 51; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

QY 135 AAAGAGTTCGTGATGAAGTTTACCCAAAGGCAATTCATAGTGAATTAATTTGCAAACTA 194  
DB 230 AAAATCTTTAATAATTTTACAAAATAAATAATTTACAAAATTAATTAATTTACAACTA 171

QY 195 GTAGTCAGATCAATAAAT 213  
DB 170 TAACTCTCTCAAAAAAT 152

RESULT 10  
US-10-012-697-734  
; Sequence 734, Application US/10012697  
; Publication No. US20030215803A1  
; GENERAL INFORMATION:  
; APPLICANT: Escobedo, Jaime  
; APPLICANT: Garcia, Pablo Dominguez  
; APPLICANT: Kassam, Altaf  
; APPLICANT: Lamson, George  
; APPLICANT: Scott, Beth  
; APPLICANT: Drmanac, Radoje  
; APPLICANT: Crkvenjakov, Radomir  
; APPLICANT: Dickson, Mark  
; APPLICANT: Drmanac, Snezana  
; APPLICANT: Labat, Ivan  
; APPLICANT: Leshkowitz, Dena  
; APPLICANT: Kita, David  
; APPLICANT: Garcia, Veronica  
; APPLICANT: Jones, Lee William  
; APPLICANT: Stache-Crain, Birgit  
; TITLE OF INVENTION: HUMAN GENES AND GENE EXPRESSION PRODUCTS  
; TITLE OF INVENTION: ISOLATED FROM HUMAN PROSTATE  
; FILE REFERENCE: 2300-16252  
; CURRENT APPLICATION NUMBER: US/10/012,697  
; CURRENT FILING DATE: 2003-01-21



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; OTHER INFORMATION: SWISSPROT HIT: P08547, EVALUE 1.00e-09
US-10-029-386-4708

Query Match      15.0%; Score 32.6; DB 15; Length 530;
Best Local Similarity 51.0%; Pred. No. 20;
Matches 77; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 39 GAACAGTCTCTCTCAATGGCAACGTCTATATCATTCGCGAATCACATTTCCGATGTT 98
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 366 GAAAAATTCCTTCTATCTTAGTTGTTAAATATATACGAGACATTTGGATTTT 307
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 99 CTCGAAAAGGCATTCCAAAGTTATTGGAGTCATGTGAAAAGAGTTCGTCAATGAAGTTTACC 158
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 306 GGCAAAATCTCTTCCACATTTATGAGATAATCAGGTGCTTTTGTCTGTAAACAAAGG 247
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 159 CAAAGGCATTTCTAGTGAATTAATGTC 189
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 246 ACAATTCATTGACACAGTAATTAATTATTC 216
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 13
US-10-195-730-25/c
; Sequence 25, Application US/10195730
; Publication No. US20030144492A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et. al
; TITLE OF INVENTION: 101 Human Secreted Proteins
; FILE REFERENCE: P2017P1
; CURRENT APPLICATION NUMBER: US/10/195,730
; CURRENT FILING DATE: 2002-07-16
; PRIOR APPLICATION NUMBER: US/09/281,976
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: 60/060,837
; PRIOR FILING DATE: 1997-10-02
; PRIOR APPLICATION NUMBER: 60/060,862
; PRIOR FILING DATE: 1997-10-02
; NUMBER OF SEQ ID NOS: 390
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 1057
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (348)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-195-730-25

Query Match      14.9%; Score 32.4; DB 15; Length 1057;
Best Local Similarity 56.6%; Pred. No. 30;
Matches 60; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 60 CAACTGCTATATCATTCGCGAATCACATTTCCGATGTTCTCGAAAAGGCATTTCCAAAGT 119
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 530 CAAAATGCTGAACCAAGTCATCTTTTAGTTCCTCAAGTCTCTAAAAGTGTTTCCCAAGT 471
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 120 TATTGGAGTCATGTGAAAAGAGTTTCGTCAATGAAGTTTACCCAAAGGC 165
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 470 TTGAACAGGCATCAGAAATCACTTTGGAGAACATGTTTAAACAAAGAC 425
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 15
US-09-814-353-20529
; Sequence 20529, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20529
; LENGTH: 3899
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1_2_3, 3899
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-20529

Query Match      14.9%; Score 32.4; DB 10; Length 3899;
Best Local Similarity 56.6%; Pred. No. 50;
Matches 60; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

; OTHER INFORMATION: SWISSPROT HIT: P08547, EVALUE 1.00e-09
US-10-029-386-4708

Query Match      15.0%; Score 32.6; DB 15; Length 530;
Best Local Similarity 51.0%; Pred. No. 20;
Matches 77; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 39 GAACAGTCTCTCTCAATGGCAACGTCTATATCATTCGCGAATCACATTTCCGATGTT 98
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 366 GAAAAATTCCTTCTATCTTAGTTGTTAAATATATACGAGACATTTGGATTTT 307
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 99 CTCGAAAAGGCATTCCAAAGTTATTGGAGTCATGTGAAAAGAGTTCGTCAATGAAGTTTACC 158
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 306 GGCAAAATCTCTTCCACATTTATGAGATAATCAGGTGCTTTTGTCTGTAAACAAAGG 247
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 159 CAAAGGCATTTCTAGTGAATTAATGTC 189
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 246 ACAATTCATTGACACAGTAATTAATTATTC 216
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 14
US-10-799-747-25/c
; Sequence 25, Application US/10799747
; Publication No. US20040157258A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et. al
; TITLE OF INVENTION: 101 Human Secreted Proteins
; FILE REFERENCE: P2017P1
; CURRENT APPLICATION NUMBER: US/10/799,747
; CURRENT FILING DATE: 2004-03-15
; PRIOR APPLICATION NUMBER: US/10/195,730
; PRIOR FILING DATE: 2002-07-16
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Qy	60	CAACTGCTATATCATTCGCGCAATCACATTCGGATGTTCTCGAAAAGGCATTCCAAAGT	119
Db	672	CAAAATGCTGAACCAAGTCATCTTTTAGGTTCTCTCAAGTGCTCTAAAAGTGTTCCTCCAAAGT	731
Qy	120	TATTGGAGTCATGTGAAAGAGTTTCGTCAATGAAGTTTACCCAAAGGC	165
Db	732	TTGAACAGGCATCAGATCATCTTGGAGACATGTTAAAACAAAGAC	777

Search completed: January 22, 2005, 05:10:59  
 Job time : 258.562 secs

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